Student Name:



Knowledge Organiser: September 2025 Year 11

"Wise men and women are always learning, always listening for fresh insights."

Proverbs 18:15 (The Message)

Using Your Knowledge Organiser

Your teachers have worked hard to produce this document for you and have selected the most important knowledge that you will need to know to make good progress in their subjects. You should aim to learn all the information in your knowledge organiser off by heart.

Try out some of the strategies listed here to help you achieve this.

- 1. Read the knowledge organiser and ensure you understand it. Try and make links between the information on it and what you already know and do.
- 2. Look, Cover, Write, Check the traditional way of learning spellings!
- 3. Create a Mnemonic Using the first letters of keywords create a memorable sentence or phrase.
- 4. Create an acronym using the first letters of keywords to create a word to prompt you to remember all of the information.
- 5. Write it out in full on a blank version of the same format.
- 6. Write it out in note form, reducing it to key ideas or words. Try the same format but a smaller piece of paper.
- 7. Recreate the knowledge organiser as a series of images and words

- 8. Write a set of test questions for yourself using the organiser.
 - Answer these without the organiser the next day.
 - Swap your questions with a friend to increase challenge.
 - Turn your questions in to a game by putting them on cards and playing with friends.
- 9. Chunk the knowledge into smaller bitesize sections of around 5 pieces of information. Concentrate on mastering a chunk before you start on the next.
- 10. Try to make connections between the information and people you know. E.g. Visualise yourself trying these strategies with a specific teaching group.
- 11. Talk about the information on the knowledge organiser with another person. Teaching someone else about it helps us learn it.
- 12. Say the information out loud rehearse it like learning lines for a play, or sing it as if you are in a musical!

Year 11 Half Term 1 Key Vocabulary

| English Language | English Literature | Maths | Science - Biology | Science-Chemistry | Science – Physics |
|-------------------------|---------------------------|---------------------------------|---------------------------|-----------------------------------|------------------------------|
| Insanitary | Incessantly | | Clone | Atmosphere | Newton's second law |
| Populous | Gilded | | Allele | Sedimentary rock | Resultant force |
| Sinister | Reverence | | Meiosis | Greenhouse effect | Mass |
| Repulsive | Versatile | | Gamete | Greenhouses gases | Weight |
| Permanent | Wrath | | Variation | photosynthesis | Acceleration |
| Adapt | Regicide | | Genome | Climate change | Terminal velocity |
| Tone | Foil | | Chromosome | Formulations | Stopping distance |
| Structure | Catharsis | | Gene | Mobile phase | Hooke's Law |
| Impression | Paradox | | Mutation | Stationary phase | Directly proportional |
| Salutation | Falaudx | | Natural selection | Stationary phase | Spring constant |
| Salutation | | | Evolution | | Spring constant |
| History | Geography | Spanish | French | GCSE RS | Sociology |
| Inoculation | Development | Noun | Noun | Retribution | Crime |
| Vaccination | Trade | Adjective | Adjective | Deterrence | Deviance |
| Symptom | Development Gap | Verb | Verb | Reformation | Pressure |
| Diagnosing | Globalisation | Connective | Connective | Revenge | Statistics |
| Purging | Human Development Index | Opinion verb | Opinion verb | Forgiveness | Surveys |
| Astrology | Gross National Income | Infinitive | Infinitive | Death penalty | Reported |
| Flagellation | Transnational Corporation | Frequency expression | Frequency expression | Oppose | Recorded |
| Urine Chart | Life Expectancy | Conjugate | Conjugate | Support | Validity |
| Infirmary | Industrial Structure | Adjectival agreement | Adjectival agreement | Suffering | Reliability |
| • | | _ | | Corporal punishment | Social construct |
| Apothecary | Intermediate Technology | Wow phrase Exclamation | Wow phrase Exclamation | Corporal pullishinent | Social construct |
| Doufourning Auto Duomo | Doufourning Auto Dougo | | | Cmout | Tachnalam |
| Performing Arts - Drama | Performing Arts - Dance | Child Development | <u>Art</u> | <u>Sport</u> Aerobic endurance | <u>Technology</u> |
| Forum Theatre | Choreographic | Unoccupied play | | | |
| Improvisation | Motif | Solitary play | | Muscular endurance | |
| Action | Action | Spectator play | | Muscular strength | |
| Relationship | Dynamic | Parallel play | | Speed | |
| Form | Relationship | Associative play | | Flexibility | |
| Cross-cutting | Spatial | Co-operative play | | Body composition | |
| Marking the Moment | Expressive | Locomotor play | | Power | |
| Thought Tracking | Acceleration | Creative play | | Agility | |
| Hot seating | Accumulation | Sensory play | | Reaction time | |
| Narration | Intention | Imaginative play | | Balance | |
| | | | | Coordination | |
| <u>Construction</u> | <u>iMedia</u> | Hospitality and Catering | <u>Music</u> | <u>Business</u> | <u>Core RS</u> |
| | | | Repetition | Aesthetics | Buddha |
| | | | Imitation | Market segment | Jakata |
| | | | Sequence | Pricing strategy | Ascetics |
| | | | Ostinato | Product life cycle | Meditation |
| | | | Drone | Distribution | Enlightenment |
| | | | Arpeggio/broken chord | Integration | Mara |
| | | | Alberti bass | Logistics | Dhamma |
| | | | Anacrusis | Productivity | The three marks of existence |
| | | | Dotted rhythms | Stock control | The four noble truths |
| | | | Dotted Highlins | Stock control | The four floble tratifs |

Year 11 — Component 2 English Language

1. Tier 2 Vocabulary: Volcanoes -Sandrick and Tom Robins & London Markets— Petticoat Lane and Kingsland Road Market.

| markets retilecat zane and milibotana moda marketi | | |
|--|---|--|
| Volcanoes: | | |
| specialises | Concentrate on and become an expert in a particular skill or subject. | |
| permanent | Lasting or intending to last indefinitely (an unlimited time). | |
| revamp | The act of improving the appearance of something. | |
| adapt | Change; modify; change for a new purpose. | |
| Markets: | | |
| inadequate | Not good enough; lacking the quality required. | |
| din | Loud, unpleasant and prolonged (going on too long) noise. | |
| sanitary | Conditions that affect hygiene and health. | |
| seething | Filled with anger but without expressing it. | |
| thronged | A crowd filling a place. | |
| excess | An amount that is more than necessary. | |
| oily | Unpleasantly smooth or ingratiating (intending to gain approval | |

2. Vocabulary: to describe place

| Term | Definition |
|------------|--|
| insanitary | Unhygienic conditions. |
| populous | Having a large population; densely populated. |
| sinister | Giving the impression that something evil or unpleasant will happen there. |
| popular | Like by many people. |
| thunderous | Noisy; very loud; powerful and intense. |
| repulsive | Arousing intense distaste or disgust. |

3. Letter writing: Structure Sender's address: (house number/ street name Town City County Date in full Recipient's address: (house number/ street name Town If you **don't** know the recipi-City ent's actual name, end with County Yours faithfully, Post code If you **do** know the recipient's name, end with Yours sin-Salutation: Dear Sir/ Madam, cerely, Closure: Yours faithfully/ sincerely,

4. Question Terminology

| Term | Definition |
|------------|--|
| Tone | The writer's use of words and writing style to convey his or her attitude towards a topic. |
| Structure | The arrangement of and relations between the parts or elements of something complex. |
| Impression | An idea, feeling, or opinion about something or someone, especially one formed without conscious thought or on the basis of little evidence. |

Year 11 — English Literature 'Conflict Poetry'

| Key Vocabulary | | Poetic Terminology | |
|------------------------------|--|--------------------|--|
| Belfast Confetti | Labyrinth—Maze Rapid—Fast Punctuated— interrupted or emphasised Balaclava—Hat that covers the face and neck Fusillade of— a bunch of Ache—a prolonged dull pain Merciless—cruel Wearied—tired Salient—important Sentries—guards/lookouts | Stanza | A group of lines forming the basic recurring metrical unit in a poem; a verse. |
| Exposure | Agonies—extremely bad pains Incessantly—constantly Poignant—emotional Successive—one after the other Nonchalance—calmness dazed—shocked and confused Loath—unwilling Shrivelling—shrinking Grasp—grab/understand | Speaker | The poetic voice within a poem. |
| War | Reassurance—kind words Absurd—weird and ridiculous Gilded—covered in gold Staggering—walking unsteadily or huge | Listener | The person who hears the poem. |
| Photographer | Devastated—destroyed Instinct—gut feeling Prevailing—winning Burden—heavy load Boundaries—edges/borders Arbitrary—random Ceremonies—special events/series of actions decoration Reverence—an almost holy respect local inclined to—likely to likely to local inclined to—likely to l | Caesura | A pause near the middle of a line of poetry. Usually signalled by a full stop. |
| What were they like? | Epic—huge Distinguish between—tell the difference between Illumined—lit up Charred—blackened by fire | Enjambment | The running over of one verse into the next. |
| The Class Game A Poison Tree | Peasants—poor people Bamboo—fast-growing wood Resembled—looked like Wince—tense up Toil—to work hard Bog—slang for toilet Gullet—throat Wrath—anger Foe—enemy Deceitful—dishonest Wiles—tricks Beheld—look/saw | Rhyme | The repetition of the same or similar sounds occurs in two or more words, usually at the |
| No Problem | Taunts—teasing/intimidating statements | | end of lines . The beat and pace of a poem. Rhythm is |
| Half-Caste | Half-caste—mixed race Picasso— a famous Spanish painter Canvas—something you paint on Overcast—covered with clouds Spiteful—angry Tchaikovsky— famous Russian composer Symphony—complex music for a full orchestra | Rhythm | created by the pattern of stressed and unstressed syllables in a line or verse. |

Year 11 — English Literature 'Conflict Poetry'

| Key Vocabulary | | A Christmas Carol—Key Quotes | |
|--------------------------------|--|---|---|
| Charge of the Light Brigade | Brigade—military unit (or group of people) Dismayed—upset Blundered—made a mistake Sabres—swords Plunged—Steeply dropped Sundered—torn away | 'Hard and sharp as flint [] as solitary as an oyster' | The adjectives 'hard' and 'sharp' imply Scrooge has a tough exterior, but the simile 'as flint' suggests if hit hard enough it could spark a fire inside to create change. The simile comparing him to an oyster emphasises this by focusing on a hard exterior that if cracked open, may hold a pearl (something of beauty). |
| The Man He Killed | Ancient—very old Nipperkin— a half-pint Infantry—a branch of an army made up of soldiers Foe—enemy Quaint—attractively old-fashioned Half-a-crown—old british coin | 'If they would rather die, they had better do it, and | Scrooge shows his callous, selfish attitude towards the |
| | Armistice—peace agreement Graves—places where bodies are buried Crimped—folded/interfered with Spasms—extreme pains/muscle jerks Blockade—something that prevents access to and from a | decrease the surplus population' | poor by viewing them as better off dead and simply a 'surplus', viewing them in monetary terms as opposed to human beings. |
| Poppies | place Rounded up—collected/gathered together Impulse—sudden desire Blackthorns—bushes with fruits Intoxicated—drunk Skirting—avoiding/going around the edge Ornamental—pretty Reinforcements—additional things that strength or add support Inscriptions—written sayings | 'I wear the chain I forged in lifeThe chain was made up of cash boxes ledgersheavy purses' | Marley's Ghost tells Scrooge than unless he changes he will have a chain holding him to the earth, forged by his sins 'boxes, ledgers, purses' (money). This is used to scare Scrooge and make him realise where his sins lie. |
| The Prelude | Unloosed—released/gave/given Glittering—shining and twinkling Idly—in a lazy way Craggy—rough and rocky Utmost—extreme Boundary—Edge/border Elfin—elf-like Lustily—energetically (with sex on the mind) Heaving—lifting up Instinct—gut feeling Stature—height Strode—walked Trembling—shaking Covert—secret Mooring—anchoring Solitude—quiet aloneness Spectacle—sight to see | 'A solitary child, neglected by his friends is left there still – Scrooge sobbed' | The Ghost of Christmas Past shows Scrooge his time as a child at school, and Scrooge shows a moment of emotion . The reader is given a reason to sympathise with Scrooge, and Scrooge is given a reminder of who he was and how he felt. |
| The Destruction of Sennacherib | Cohorts—associates/groups of people Gleaming—shining Sheen—shine Withered - shrank and died On the morrow—on the next day Heaved—lifted up/threw Steed—horse Distorted—twisted/lied about Lances—knives Wail—loud cry Gentile—non-Jewish person | 'They are Man's. This boy is ignorance. This girl is Want. Beware for I see that written which is Doom.' | Dickens explains that Mankind's ignorance and want has poisoned them, and that ignorance especially will cause 'Doom'. This summarises his message to the upper class, that their ignorance will lead to the death of people and ultimately society. |
| Catrin | Fierce—strong Confrontation—argument Environmental—relating to surrounding conditions Rosy—wonderful Defiant—angry and uncooperative Glare— angry | 'It was shrouded in a deep black garmentleft nothing visible except one outstretched hand.' | The Ghost of Christmas Yet to Come does not speak to Scrooge, as Scrooge must decide to change by himself and without guidance. He is dressed as the Grim Reaper to emphasise that ultimately Scrooge will end up dead and without mourners if he does not change. |
| Cousin Kate | Cottage—house Maiden—young unmarried woman Contented—satisfied and happy Mindful—aware/careful Flaxen—pale yellow Lured—attracted Thereof—of that/of it Shameless—without shame Pure—total/totally/nothing else mixed in Outcast—person who is disliked Howl—yell Writ—official written order Fret—worry | 'I will honour Christmas in my heart. I will live in the Past, the Present and the Future. I will not shut out the lessons that they teach' | By Stave 5, Scrooge is a changed man and promises to keep the lessons of all three Ghosts in his heart. The repetition of 'I will' shows that he has changed and that he now has a more positive and charitable attitude in life. |

| | Subject terminology – Number | |
|--------------------------|---|--|
| Integer | A whole number with no decimal part | |
| Factor | A number that divides into another number exactly and without leaving a remainder | |
| Multiple | The result of multiplying a number by an integer | |
| Prime | A number which only has two factors – 1 and itself | |
| Percentage multiplier | The decimal equivalent of a percentage used to calculate percentage change | |
| Estimate | Working out a rough answer to a calculation by rounding the values first | |
| Equivalent | Having the same value or being equal | |
| Proportion | When quantities have the same relative size (the same ratio) | |

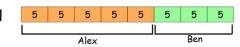
| How to : Percentage multipliers | | | |
|---|--------------------------|--|--|
| Find an amount | E.g. Find 12% of 200 | | |
| 1) Divide the percentage by 100 to find the | $12 \div 100 = 0.12$ | | |
| multiplier | | | |
| 2) Multiply by the original quantity | $200 \times 0.12 = 24$ | | |
| Increase by an amount | E.g. Increase 200 by 12% | | |
| 1) Add the percentage to 100% | 100% + 12% = 112% | | |
| 2) Divide the percentage by 100 to find the | $112 \div 100 = 1.12$ | | |
| multiplier | 000 440 004 | | |
| 3) Multiply by the original quantity | $200 \times 1.12 = 224$ | | |
| Decrease by an amount | E.g. Decrease 200 by 12% | | |
| 1) Subtract the percentage from 100% | 100 - 12% = 88% | | |
| 2) Divide the percentage by 100 to find the | | | |
| multiplier | $88 \div 100 = 0.88$ | | |
| 3) Multiply by the original quantity | 000 000 175 | | |
| | $200 \times 0.88 = 176$ | | |

Ratio: Sharing using bar models

To use a bar model we add the parts of our ratio together, draw that number of boxes and share the amount given into those boxes. The value in each box must always be the same

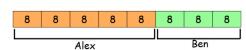
E.g. Alex and Ben share some money in the ratio 5:3. Together they receive £40

We need to share £40 into the total amount of boxes, so $40 \div 8 = 5$



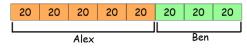
E.g. Alex and Ben share some money in the ratio 5:3. Alex receives £40

As Alex has received £40 and he has 5 boxes, we calculate $40 \div 5 = 8$



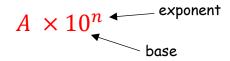
E.g. Alex and Ben share some money in the ratio 5:3. The difference in what they both receive is £40

The difference between the boxes Alex has and the boxes Ben has is



$$5-3=2$$
 so we need to calculate $40 \div 2 = 20$

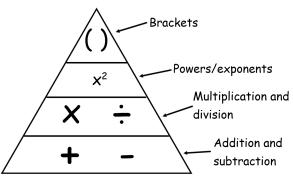
Standard form always comes in the form



where $1 \le A < 10$

 4.3×10^6 = 4300000 Positive Power = Large Number 4.3×10^{-6} = 0.0000043 Negative Power = Small Number

Order of Operations



Inverse Operations

Multiplying Integers

If the signs are the same, the result is positive.

Adding Negative Numbers Add the numbers; end result is a positive + add +

E.q. 3 + 5 = 8

Find the difference between the numbers; end result takes the sign of the number with largest magnitude. + add -

E.g.
$$3 + - 5 = -2$$

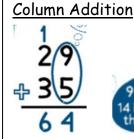
Add the integers; end result is a negative - add --3 + -5 = -8

Sauare Numbers

| <u> </u> |
|---------------------------------------|
| $1 \times 1 \text{ or } 1^2 = 1$ |
| $2 \times 2 \text{ or } 2^2 = 4$ |
| $3 \times 3 \text{ or } 3^2 = 9$ |
| $4 \times 4 \text{ or } 4^2 = 16$ |
| 5 x 5 or 5 ² = 25 |
| $6 \times 6 \text{ or } 6^2 = 36$ |
| $7 \times 7 \text{ or } 7^2 = 49$ |
| $8 \times 8 \text{ or } 8^2 = 64$ |
| $9 \times 9 \text{ or } 9^2 = 81$ |
| $10 \times 10 \text{ or } 10^2 = 100$ |
| 11 x 11 or 11 ² = 121 |
| 12 x 12 or 12 ² = 144 |

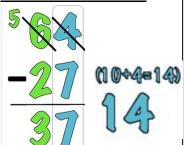
Cube Numbers

| 1 ³ = 1 x 1 x 1 = 1 |
|-----------------------------------|
| $2^3 = 2 \times 2 \times 2 = 8$ |
| $3^3 = 3 \times 3 \times 3 = 27$ |
| $4^3 = 4 \times 4 \times 4 = 64$ |
| $5^3 = 5 \times 5 \times 5 = 125$ |





Column Subtraction



Written methods

Multiplication (Grid method)

 26×5

| × | 20 | 6 |
|---|-----|----|
| 5 | 100 | 30 |

The 26 is broken into 20 and 6. These numbers are multiplied as shown

The results are then added, 100 + 30 = 130.

Division (Bus stop)

 $186 \div 6$

6 doesn't divide into 1, so the 1 carries.

6 divides into 18, 3 times. 6 divides into 6, once.

Rounding (to different degrees of accuracy)

* 5 and above rounds up *

24:356 To the nearest integer (whole number)

24

To 3 significant figures (starting at first non-zero digit)

24.4

To 2 decimal places (digits after the decimal point)

24.36

Draw in your line then check the number to the right

Find the Highest Common Factor (HCF) of 12 & 20.

| | Subject terminology - Number | |
|-----------------|---|--|
| Integer | A number which is a whole number. This can be | |
| | either positive or negative. | |
| Product | An operation to multiply two numbers together | |
| Prime | A way of writing a number as a product of its prime | |
| Factorisation | factors. | |
| Rational Number | A number which can be written as a fraction. | |
| Irrational | A number which cannot be written a fraction. | |
| Number | | |
| Highest Common | The largest factor which is common to a set of | |
| Factor | numbers. | |
| Lowest Common | The lowest quantity that is a multiple of a set of | |
| Multiple | numbers. | |
| Recurring | A decimal in which after a certain point a particular | |
| Decimal | digit or sequence of digits repeat indefinitely. | |

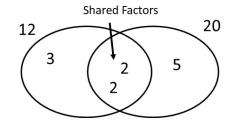
1) Complete Prime Factorisation for both numbers.

Mathematics and Numeracy

$$12 = \cancel{2} \times \cancel{2} \times \cancel{3}$$

$$20 = \cancel{2} \times \cancel{2} \times \cancel{3}$$

Number



3) HCF = Product of shared factors

$$2 \times 2 = 4$$

Rationalising a denominator

If the denominator has just one term that is a surd, the denominator can be rationalised by multiplying the numerator and denominator by that surd

If the denominator of a fraction includes a rational number, add or subtract a surd, swap the + or - sign and multiply the numerator and denominator by this expression.

Example: Rationalise the denominator of $\frac{\sqrt{8}}{\sqrt{6}}$

$$\frac{\sqrt{8} \times \sqrt{6}}{\sqrt{6} \times \sqrt{6}} = \frac{\sqrt{48}}{6} = \frac{\sqrt{(16 \times 3)}}{6} = \frac{4\sqrt{3}}{6} = \frac{2\sqrt{3}}{3}$$

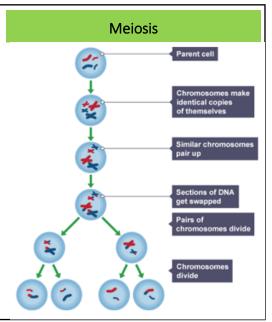
How to: Convert recurring decimals to fractions

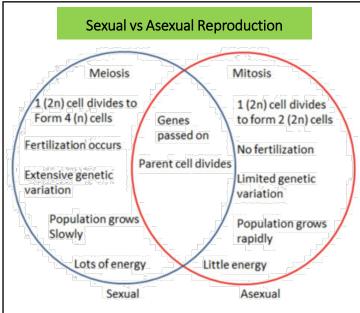
Convert 0.5 to a fraction.

Let
$$x = 0.5$$
,
 $10x = 5.5$
 $10x - x$
 $5.5555555...$
 $-0.555555...$
 5.0
 $-0.5555555...$
 5.0

Paper 2 Subject: Science - Biology

Topic: B12 Reproduction





Embryo Screening

| For embryo screening | Against embryo screening |
|---|---|
| Can avoid suffering by stopping children from being born with genetic disorders. | This process could imply that people with genetic disorders are 'undesirable', which is not fair or true. |
| Treatment for disorders costs governments and taxpayers a lot of money. | Embryo screening is a very expensive process and therefore is not available to all potential parents — only those who can pay for it. |
| There are laws in place to stop embryo screening being abused (eg. parents are not allowed to choose the sex of the baby un-less they are trying to prevent | This could be a 'slippery slope'— if the process becomes more affordable and more people want to screen their embryos, we may end up in a situation where the process of embryo screening |

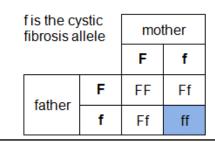
Cystic fibrosis is a genetic disorder of cell membranes resulting in the body producing large amounts of thick, sticky mucus in the air passages. It is caused by a recessive allele.

Polydactyly is a genetic disorder that causes someone to be born with extra fingers or toes, it is caused by a dominant allele.

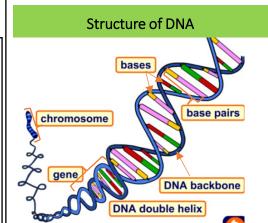
| <u>Subject</u> | <u>Definition</u> | | | | | | |
|--------------------------|--|--|--|--|--|--|--|
| <u>Terminolog</u> | | | | | | | |
| ¥ | | | | | | | |
| Clone | Offspring that is genetically identical to the parent. | | | | | | |
| Allele | Different versions of the same gene - e.g the hair colour gene has brown, black, | | | | | | |
| | blonde and ginger alleles | | | | | | |
| Meiosis | two stage process of cell division that reduces the chromosome number of | | | | | | |
| IVIEIOSIS | daughter cells. It is involved in making gametes for sexual reproduction | | | | | | |
| Gamete | Sex cell e.g. sperm and egg | | | | | | |
| Variation | Differences between individuals. | | | | | | |
| Genome | The complete set of DNA found in an organism. | | | | | | |
| Chromosome | The structure made of DNA coiled around proteins. | | | | | | |
| Gene | a small section of DNA on a chromosome that codes for a particular sequence of | | | | | | |
| Gene | amino acids, to make a specific protein. | | | | | | |
| Dominant | The allele will be expressed and the phenotype will be apparent in the offspring | | | | | | |
| allele | even if only one of the alleles is inherited | | | | | | |
| Recessive | The allele will be expressed and the phenotype that will only show up in the | | | | | | |
| allele | offspring if both of the alleles coding for that characteristic are inherited | | | | | | |
| Homozygous | two identical versions of the alleles for a characteristic | | | | | | |
| Heterozygous | Two different versions of the alleles for a characteristic | | | | | | |
| Genotype | the genetic makeup of an individual for a particular characteristic | | | | | | |
| Dhanatuna | the physical appearance / biochemistry of an individual for a particular | | | | | | |
| Phenotype characteristic | | | | | | | |
| | | | | | | | |

Capital letter = dominant allele Lower case = recessive allele

How to construct Punnett squares



- 1. Determine the parental genotypes. You can use any letter you like but select one that has a clearly different lower case, for example: Aa, Bb, Dd.
- Split the alleles for each parent and add them into your Punnett square around the edges.
- 3. Work out the new possible genetic combinations inside the Punnett square.



parents).

is **abused** and used to produce

characteristics chosen by the

'desirable' offspring (ie. those with

certain genetic disorders which

that specific to either males or

are sex-linked, that is, those

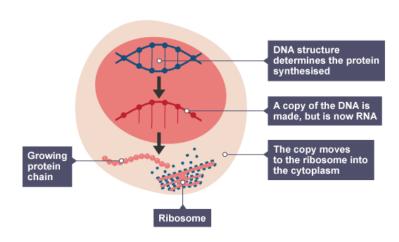
females).

Paper 2 Subject: Science - Biology

Examples of sexual and asexual reproduction in organisms

| Sexual reproduction | Asexual reproduction |
|--|--|
| Fungi reproduce sexually to generate variation | Fungi release spores by asexual reproduction |
| Plants use sexual reproduction to produce seeds | Plants such as strawberries reproduce asexually by sending out runners, or daffodils when their bulbs divide |
| Malarial parasites reproduce sexually in the host mosquito | Malarial parasites reproduce asexually in the human host |

Protein synthesis



| Subject Terminolog Y | <u>Definition</u> |
|----------------------------|--|
| Clone | Offspring that is genetically identical to the parent. |
| Allele | Different versions of the same gene - e.g the hair colour gene has brown, black, blonde and ginger alleles |
| Meiosis | two stage process of cell division that reduces the chromosome number of daughter cells. It is involved in making gametes for sexual reproduction |
| Gamete | Sex cell e.g. sperm and egg |
| Variation | Differences between individuals. |
| Genome | The complete set of DNA found in an organism. |
| Chromosome | The structure made of DNA coiled around proteins. |
| Gene | a small section of DNA on a chromosome that codes for a particular sequence of amino acids, to make a specific protein. |
| Dominant allele | The allele will be expressed and the phenotype will be apparent in the offspring even if only one of the alleles is inherited |
| Recessive allele | The allele will be expressed and the phenotype that will only show up in the offspring if both of the alleles coding for that characteristic are inherited |
| Homozygous | two identical versions of the alleles for a characteristic |
| Heterozygous | Two different versions of the alleles for a characteristic |
| Genotype | the genetic makeup of an individual for a particular characteristic |
| Phenotype | the physical appearance / biochemistry of an individual for a particular characteristic |
| Protein synthesis | The production of proteins from amino acids, which happens in the ribosomes of the cell. |
| Mutation | A random and spontaneous change in the structure of a gene, chromosome or number of chromosomes. |
| Nucleotide | The units or molecules of which DNA or RNA is composed |
| | |

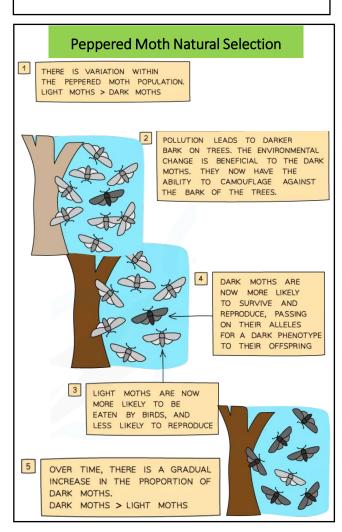
Topic: B12 Reproduction

Paper 2 Subject: Science - Biology

aper 2 Subject. Science Biolog

Natural Selection Model Answer

- 1. A mutation causes variation in the species.
- 2. The organism better adapted/most suited survives.
- 3. The organism reproduces and passes on its genes to the next generation.



Genetic Engineering

- 1. selection of the desired characteristic
- 2. the gene responsible for the characteristic is 'cut out' of the chromosome
- 3. the gene is transferred and inserted into another organism
- 4. replication of the modified organism.

Benefits of genetic engineering

Genetic modification is a faster and more efficient than selective breeding.
Improve crop yields or crop quality
Less herbicides used
Less insecticides used
Sterile insects could be created such as a mosquito. This may help with spread of diseases, such as malaria, dengue fever and the Zika virus.

Risks of genetic engineering

Some people believe it is not ethical to interfere with nature in this way.

GM crop seeds are more expensive and so people in developing countries cannot afford them.
GM crops could be harmful, effects of eating GM

GM crops could be harmful, effects of eating GM crops on human health have not been fully explored.

| <u>Subject</u> | <u>Definition</u> | | | | |
|----------------------|--|--|--|--|--|
| <u>Terminology</u> | | | | | |
| Genetically | Describes a cell or organism that has had its genetic code altered by adding a | | | | |
| modified | gene from another organism. | | | | |
| Genetic | Process which involves the artificial transfer of genetic information from one | | | | |
| engineering | donor cell or organism to another. | | | | |
| Selective breeding | speeds up natural selection by selecting animals or plants for breeding that | | | | |
| | have a required characteristic | | | | |
| Mutation | A change in the genetic material of an organism | | | | |
| | the process by which evolution takes place. Organisms produce more | | | | |
| Natural selection | offspring than the environment can support. Only those that are most suited | | | | |
| Natural Selection | to their environment will survive to breed and pass on their useful | | | | |
| | characteristics to their offspring | | | | |
| Evolution | The process of change in the inherited traits of a population of organisms | | | | |
| Evolution | from one generation to the next. | | | | |
| Variation | The difference between organisms due to a combination of their genes and | | | | |
| variation | the environment. | | | | |
| Adaptation | Special features that make an organism well suited to their environment | | | | |
| Tissue culture | a modern way of cloning plants that allows thousands of new plants to be | | | | |
| rissue culture | created from one piece of plant tissue | | | | |
| Environmental | Differences between individuals of a species due to factors in their | | | | |
| variation | surroundings. E.g. language, religion, flower colour of hydrangeas | | | | |
| Inherited variation | Differences between individuals of a species due to their genetic information | | | | |
| iiiieiiteu variation | e.g. eye colour, hair colour, ability to roll your tongue | | | | |

Benefits of selective breeding include:

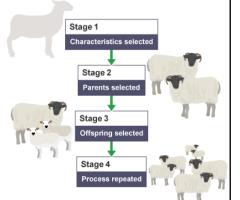
Selective Breeding

Topic: B13 Variation and Evolution

- new varieties may be economically important, by producing more or better quality food
- animals can be selected that cannot cause harm, for example cattle without horns

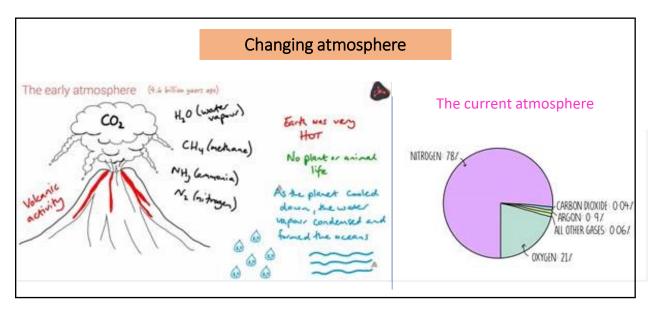
Risks of selective breeding include:

- reduced genetic variation can lead to attack by specific insects or disease, which could be extremely destructive
- rare disease genes can be unknowingly selected as part of a positive trait, leading to problems with specific organisms, eg a high percentage of Dalmatian dogs are deaf
- can create physical problems in specific organisms, eg large dogs can have faulty hips due to not being formed correctly



Paper 2 Subject: Science - Chemistry

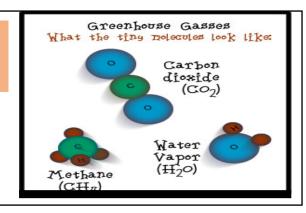
Topic: C13 The Earth's atmosphere



| The greenhouse effect | |
|--|--|
| Short-wave infrared heat lost to space lost into space greenhouse gases trap infrared heat infrared heat infrared heat infrared radiation by Earth's surface | |

| Subject Terminology | Definition |
|---------------------|---|
| Atmosphere | The layers of gases that surround the Earth. The important gases in the atmosphere are nitrogen, oxygen and carbon dioxide |
| Sedimentary rock | formed from sediments that have settled at the bottom of a lake, sea or ocean, and have been compressed over millions of years. |
| Greenhouse effect | The retention of heat in the atmosphere caused by the build-up of greenhouse gases. |
| Greenhouses gases | The gases responsible for global warming - carbon dioxide, methane, and water vapour. |
| photosynthesis | A chemical process used by plants to make glucose and oxygen from carbon dioxide and water, using light energy |
| Climate change | The long-term alteration of weather patterns. |
| pollutant | A toxic chemical or object that causes damage to the land, air or water. |
| carbon footprint | A measure of how much carbon is used through the activities of a person, company or country. |
| Complete combustion | Burning in a plentiful supply of oxygen or air. Complete combustion of a hydrocarbon produces water vapour and carbon dioxide. |

The Earth's three main green house gases



Paper 2 Subject: Science - Chemistry

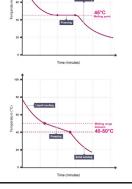
Topic: Chemistry unit 10 Chemical Analysis

Pure substances and Mixtures

Pure substances have a sharp **melting** point but mixtures melt over a range of temperatures.

The horizontal part of the graph shows that the salol has a sharp melting point, so it is pure.

Impure salol (a mixture of salol and other substances) would produce a gradual fall in temperature as it freezes.

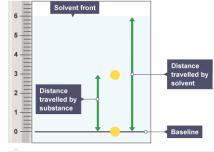


Chromatography

Paper **chromatography** is used to separate mixtures of **soluble** substances.

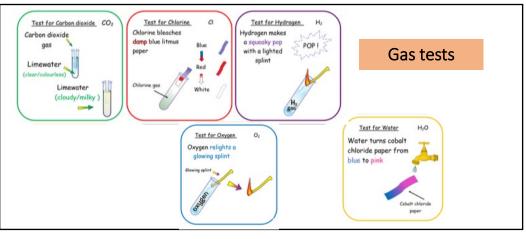
R_f values can be used to identify unknown chemicals if they can be compared to a range of reference substances. The R_f value is always the same for a particular substance.

 $R_f = \frac{\textit{distance travelled by substance}}{\textit{distance travelled by solvent}}$



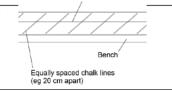
Subject Terminology

| Key Word | <u>Definition</u> |
|---------------------|---|
| Formulations | A mixture that has been designed as a useful product |
| Mobile phase | Phase in chromatography that moves, usually a solvent or mixture of solvents. |
| Stationary phase | Phase in chromatography that does not move, for instance, the paper in chromatography. |
| Repeatable | The same person doing the same investigation and getting similar or the same results. |
| Random error | An error that is unpredictable and caused by the person using equipment incorrectly, leading to anomalous results. This can be reduced (not prevented) by repeats and calculating a mean. |
| Systematic error | An error that is consistent and always out by the same proportion. Caused by the equipment and not the person. E.g. zero error. |
| Precise | How tightly clustered around the mean your result is, reflecting degree of random error |
| Accurate | How close your answer is to the true value |



Paper 2 Subject: Science – Physics

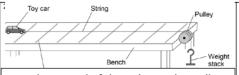
Investigating the effect of force on acceleration Required Practical



Use the ruler to measure intervals on the bench and draw straight lines the bench at these intervals.



Press the stopwatch (lap mode) at each line on the bench and for the final time at 100 cm.

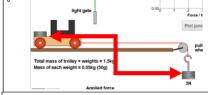


Attach one end of the string to the trolley, then pass the string over the pulley and attach to the 1N weight stack at the other end.

Record the times in your results table.

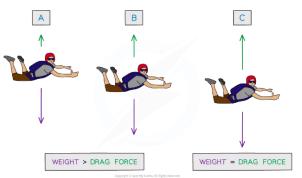


Release the toy car or trolley at the same time as you start the stopwatch.



Take 20N off the weight stack and add it to the trolley and repeat steps 1-5.

A skydiver reaching terminal velocity



THE SKYDIVER IS IN FREEFALL.

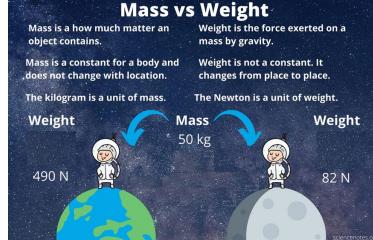
THEIR VELOCITY
INCREASES DUE TO
THE DOWNWARD
FORCE OF THEIR
WEIGHT.

THE INCREASE IN VELOCITY MEANS AIR RESISTANCE ALSO INCREASES AND ACCELERATION DECREASES.

EVENTUALLY THE SKYDIVER REACHES A VELOCITY WHERE THEIR WEIGHT EQUALS THE FORCE OF AIR RESISTANCE.

THEIR ACCELERATION IS 0.

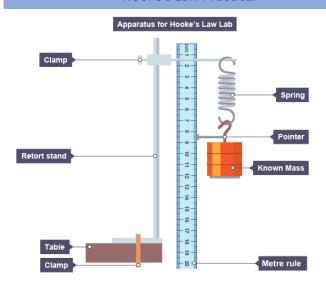
THIS IS THE TERMINAL



| Subject Terminology | Definition |
|----------------------------|--|
| Newton's second law | The acceleration of an object is proportional to the resultant force |
| | acting on it and inversely proportional to the object's mass |
| Resultant force | A single force which can replace all the forces acting on an object and |
| nesaltant for ce | have the same effect. |
| Mass | The amount of matter an object is made up of. Measured in kg. A scalar. |
| Weight | The force acting on an object due to gravitational attraction. Measures in Newtons. A vector. |
| Acceleration | The rate of change of velocity. Measured in m/s ² . A vector. |
| Terminal velocity | Maximum speed of an object falling through a fluid, reached when the forces on the object are balanced |
| Stopping distance | Thinking distance + stopping distance. |
| Thinking distance | The distance travelled during a person's reaction time. |
| Braking distance | The distance taken to stop once the brakes are applied. |
| Elastic deformation | An objects returns to its original shape once the forces deforming it are removed. |
| Hooke's Law | The extension of a spring is directly proportional to the force applied as long as the limit of proportionality is not exceeded. |
| Elastic limit | The maximum amount that an object can be stretched or squashed before it is no longer able to return to its original shape. |
| Limit of proportionality | The point where force and extension are no longer directly proportional and Hooke's Law no longer applies. |
| Directly proportional | Shown on a graph by a straight line through the origin. |
| Elastic potential energy | The energy stored in a stretched, squashed or twisted object. |
| Spring constant | The measure of the stiffness of a spring. Measured in N/m |
| | |

Topic: P10 Forces and Motion

Hooke's Law Practical

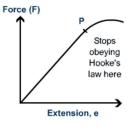


Method

- 1. Read the pointer value from the metre rule. Record this length. This is the initial length of the spring for zero mass.
- 2. Add a 100g slotted mass to the hanger. Record the mass in kg in the table.
- 3. Read the new position of the pointer on metre rule. This is the stretched length of the spring. Record this length in the table.
- 4. Calculate the stretching force = weight of masses: W = mg.
- 5. Calculate: extension = stretched length original length.
- Repeat the procedure by adding 100g masses in steps of 100g up to 1200g.

Force Extension Graph

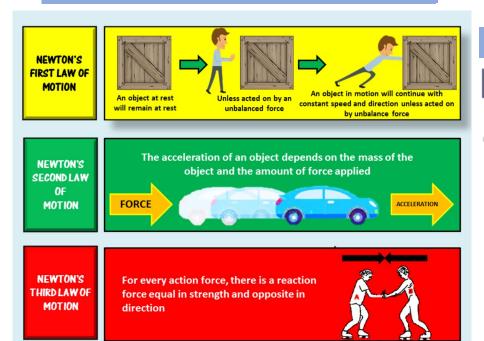
The graph shows a directly proportional relationship until point p



Using Equations

Force = mass x acceleration Force = spring constant x extension Weight = mass x gravitational field strength Elastic potential energy = 0.5 x spring constant x extension² **Stopping distance = thinking distance + braking distance**

Newton's 3 Laws of Motion



Remember FIFA

Formula: Write down the equation to

Insert values: Substitute your numbers

into the equation

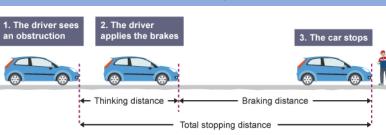
Fine tune: Rearrange the equation and

convert units if you need to

Answer: Calculate the answer and write

the unit





| Factors affecting | | | | |
|-------------------------------------|--------------|--|--|--|
| Thinking Distance Stopping Distance | | | | |
| Speed | Speed | | | |
| Distraction | Worn brakes | | | |
| Alcohol | Wet/Icy road | | | |
| Drugs | Mass of car | | | |
| Tiredness | Worn tyres | | | |

| What is development? | | Variations in the level of development | | | | Human factors affecting uneven development | | | | |
|---|--|--|--|---|---|--|--|---|---|--|
| Development is a | n improvement in living standards through | LICs Poorest countries in the world. GNI | | advanced countries merging developing countries countries countries | | | Aid | Trade | | |
| Economic | better use of resources. This is progress in economic growth through levels of industrialisation and use of technology. | NEEs | per capita is low and most citizens have a low standard of living. These countries are getting richer as their economy is progressing from the primary industry to the secondary industry. Greater exports leads to better wages. | | | | countr projec infrast | help some es develop key s for ucture faster. | Countries that export more than they import have a trade surplus. This can improve the | |
| Social | This is an improvement in people's standard of living. For example, clean water and electricity. | | | | | such a hospita | n improve services s schools, als and roads. uch reliance on | national economy. Having good trade relationships. Trading goods and | | |
| Environmental | This involves advances in the management and protection of the environment. | HICs | These countries are wealthy high GNI per capita and stan- | with a | [° aoookm | | | ght stop other nks becoming | services is more profitable than raw materials. | |
| | Measuring development | | of living. These countries car spend money on services. | n | | | Ed | ucation | Health | |
| These are used to co development. | mpare and understand a country's level of | | Causes of unever | n develo | oment | | | tion creates a | Lack of clean water and | |
| | Economic indictors examples | | nt is globally uneven with mos | | | | meani | workforce ng more goods | poor healthcare means a large number of people | |
| Employment type | The proportion of the population working in primary, secondary, tertiary and quaternary industries. | Afric | nia. Most NEEs are in Asia and a. Remember, development ca | | y within countrie | es too. | produce • Educat | rvices are ced. ted people earn money , meaning | suffer from diseases. • People who are ill cannot work so there is little contribution to the | |
| Gross Domestic Product per capita | This is the total value of goods and services produced in a country per person, per year. | Unit 2b AQA The Changing Economic World | | | | they a taxes. help d | lso pay more This money can evelop the | economy. • More money on healthcare means less | | |
| Gross National Income per capita | An average of gross national income per person, per year in US dollars. | | Physical factors affecting | | | | | ry in the future. | spent on development. History | |
| | Social indicators examples | N | atural Resources | | Natural Hazar | ds | · - | otion in local and | Colonialism has helped | |
| Infant mortality | The number of children who die before reaching 1 per 1000 babies born. | Minerals and metals for fuel. B | | isk of tectonic hazards. enefits from volcanic material nd floodwater. | | The stagovern | al governments. ability of the ment can effect | Europe develop, but slowed down development in many other countries. Countries that went through industrialisation | | |
| Literacy rate | The percentage of population over the age of 15 who can read and write. | Access to safe water. F | | • Fi | requent hazards undermines edevelopment. | | the country's ability to trade. • Ability of the country to | | | |
| Life expectancy | The average lifespan of someone born in that country. | • Polisi | Climate Location/Terr | | | invest into services and a while ago, have no infrastructure. develop further. | | | | |
| | Mixed indicators | farmi | Reliability of rainfall to benefit farming. Landlocked countries may find trade difficulties. | | | | Consequences of Uneven Development | | | |
| Human Developmen Index (HDI) | A number that uses life expectancy, education level and income per person. | Extreme climates limit industry and affects health. Climate can attract tourists. Mountainous terrain makes farming difficult. Scenery attracts tourists. | | | Levels of development are different in different countries. This uneven development has consequences for countries, especially in wealth, health and migration. | | | | | |
| The Demographic Transition Model Wealth | | | | | Modth | People in more developed countries have higher | | | | |
| The demograph | ic | STA | GE 1 STAGE 2 ST | TAGE 3 | STAGE 4 | STAGE 5 | wealth | incomes than less | developed countries. | |
| transition model (C shows population cl over time. It studies birth rate and death | nange I how | High High Stee | n BR Declining fal. adv DR Lo | apidly lling DR ow BR | Low DR Low BR Zero | Slowly Falling DR Low BR | Health | | means that people in more ies live longer than those in less ies. | |
| affect the total popu of a country. | | e.g. T | very High | High g. India | e.g. UK | Negative e.g. Japan | Migration | development or a | es have higher levels of are secure, people will move to tunities and standard of living. | |

Reducing the Global Development Gap

Microfinance Loans This involves people in LICs receiving smalls loans from traditional banks.

- + Loans enable people to begin their own businesses - Its not clear they can reduce
- poverty at a large scale.

This is given by one country to another as money or resources. + Improve literacy rates, building

- dams, improving agriculture. - Can be wasted by corrupt
- governments or they can become too reliant on aid.

Fair trade This is a movement where farmers get a fair price for the

goods produced. + Paid fairly so they can develop

- schools & health centres.
- -Only a tiny proportion of the extra money reaches producers.

Foreign-direct investment \$ This is when one country buys property or infrastructure in another country.

- + Leads to better access to finance, technology & expertise.
- Investment can come with strings attached that country's will need to comply with.

Debt Relief

This is when a country's debt is cancelled or interest rates are lowered.

- + Means more money can be spent on development.
- Locals might not always get a say. Some aid can be tied under condition from donor country.

Technology Includes tools, machines and affordable equipment that improve quality of life.

- + Renewable energy is less expensive and polluting.
- Requires initial investment and skills in operating technology

CS: Reducing the Development Gap In Jamaica

Location and Background

Jamaica is a LIC island nation part of the Caribbean. Location makes Jamaica an attractive place for visitors to explore the tropical blue seas, skies and palm filled sandy beaches

Tourist economy

-In 2015, 2.12 million visited. -Tourism contributes 27% of GDP and will increase to 38% by 2025. -130,000 jobs rely on tourism. -Global recession 2008 caused a decline in tourism. Now tourism

is beginning to recover.

Multiplier effect

-Jobs from tourism have meant more money has been spent in shops and other businesses. -Government has invested in infrastructure to support tourism. -New sewage treatment plants

have reduced pollution.

Development Problems

- Tourists do not always **spend much money** outside their resorts. Infrastructure improvements have not spread to the whole island.
- Many people in Jamaica still live in poor quality housing and lack basic services such as healthcare.

Case Study: Economic Development in Nigeria

Location & Importance

200 km Yankari Nat. Park Yaounde

Social

Nigeria is a multi-cultural, multi-

conflicts from groups such as the

Industrial Structures

Once mainly based on agriculture,

A thriving manufacturing industry

is increasing foreign investment

and employment opportunities.

Nigeria plays a leading role with

Growing links with China with

huge investment in infrastructure.

Main import includes petrol from

the African Union and UN.

the EU, cars from Brazil and

phones from China.

Changing Relationships

50% of its economy is now

manufacturing and services.

Although mostly a strength,

Boko Haram terrorists.

diversity has caused regional

faith society.

Influences upon Nigeria's development

Political

Suffered instability with a civil war between 1967-1970. From 1999, the country became

Nigeria is a NEE in West Africa.

Nigeria is just north of the Equator

and experiences a range of

environments.

Nigeria is the most populous and

economically powerful country in

Africa. Economic growth has been

base on oil exports.

stable with free and fair elections. Stability has encouraged global investment from China and USA.

Cultural

Nigeria's diversity has created rich and varied artistic culture. The country has a rich music, literacy and film industry (i.e. Nollywood). A successful national football side.

The role of TNCs

TNCs such as Shell have played an important role in its economy.

- + Investment has increased employment and income.
- Profits move to HICs.

- Many oil spills have damaged fragile environments.

Environmental Impacts

The 2008/09 oil spills devastated swamps and its ecosystems. Industry has caused toxic **chemicals** to be discharged in open sewers - risking human health. 80% of forest have been cut down. This also increases CO² emissions.

Aid & Debt relief

+ Receives **\$5billion** per year in aid. + Aid groups (ActionAid) have improved health centres, provided anti-mosquito nets and helped to protect people against AIDS/HIV. - Some aid fails to reach the people who need it due to corruption.

Effects of Economic Development

Life expectancy has increased from 46 to 53 years. 64% have access to safe water. Typical schooling years has increased from 7 to 9.

Case Study: Economic Change in the UK

UK in the Wider World

The UK has one of the largest economies in the world. The UK has huge political. economic and cultural influences. The UK is highly regarded for its fairness and tolerance. The UK has global transport links i.e. Heathrow and the Eurostar.

Towards Post-Industrial

The quaternary industry has

increased, whilst secondary has

Numbers in **primary** and **tertiary**

CS: UK Car Industry

industry has stayed the steady.

Causes of Economic Change

De-industrialisation and the decline of the UK's industrial base. Globalisation has meant many industries have moved overseas, where labour costs are lower. Government investing in

Developments of Science Parks

Science Parks are groups of scientific and technical knowledge based businesses on a single site.

- Access to transport routes.
- Staff benefit from attractive working conditions.

Big increase in professional and technical jobs. supporting vital businesses.

decreased.

Every year the UK makes 1.5 million cars. These factories are owned by large TNCs. i.e. Nissan.

- Highly educated workers.
- Attracts clusters of related high-tech businesses.

7% of energy used there factories is from wind energy. New cars are more energy efficient and lighter.

Nissan produces electric and hybrid cars.

first time buyers.

rural unemployment.

Change to a Rural Landscape

Social

Economic

Rising house prices have caused tensions in villages. Villages are unpopulated during the day causing loss of identity. Resentment towards poor migrant communities.

Improvements to Transport

A £15 billion 'Road Improvement Strategy'. This will involve 10 new roads and 1,600 extra lanes. £50 billion HS2 railway to improve connections between key UK cities. £18 billion on Heathrow's controversial third runway. UK has many large ports for importing and exporting goods.

UK North/South Divide

Lack of affordable housing for local

Sales of farmland has increased

Influx of poor migrants puts

pressures on local services.

- Wages are lower in the North. - Health is **better** in the South.

- Education is worse in the North.

+ The government is aiming to support a Northern Powerhouse

project to resolve regional differences.

+ More devolving of powers to disadvantaged regions.

| | Key Dates In the Expansion and Consolidation of America |
|--------|--|
| 1854 | Kansas Nebraska Act – created as a compromise. Kansas and Nebraska |
| | were given popular sovereignty to decide to become slave or free states. |
| 1860 | Abraham Lincoln elected President of the United States – He became the |
| | first Republican to win and only received 40% of the popular vote. |
| 1861 – | American Civil War – a civil war in the United States fought between the |
| 1865 | Union (north) and Confederacy (south). |
| 1863 | President Lincoln signed the Emancipation Proclamation – it declared "that |
| | all persons held as slaves and henceforward shall be free" |
| 1863 – | Indian Wars – a series of battles waged by the US Government against Native |
| 1868 | Americans (Plain's Indians) over land and natural resources in the West. |
| 1864 | Sand Creek Massacre- Colorado soldiers attacked a peaceful Plain's Indian |
| | camp slaughtering and mutilating about 150 people, mainly women & children. |
| 1865 | Thirteenth Amendment – abolished slavery and involuntary enslavement, |
| | except as punishment for a crime. |
| 1865 – | Sioux or Red Cloud's War – began as US gov developed the Bozeman Trial. |
| 1868 | Plain's Indians attacked workers, settlers and soldiers to save their native land. |
| 1866 | Fetterman Massacre – The Sioux lured a US Army patrol at Fort Phil Kearny |
| | into a deadly trap where they killed 81 US soldiers. |

| | TECHNICAL VOCABULARY |
|------------------------------|--|
| Fort Laramie Treaty | Agreement between US Government and representatives of the Plains Indian Nations. Plains Indians promised not to attack settlers on the Oregon Trial and to allow building of some roads and Forts in their territory. In return they had an agreed hunting area and annual subsidy. |
| Bozeman Trial | Established to link the gold fields in Montana with the Oregon Trial – broke the terms of the Fort Laramie Treaty. |
| Negotiators | These people wanted a negotiated solution to the Indian problem. They believed that responsibility for Indian affairs should be kept within the Bureau of Indian Affairs. |
| Exterminators | This group believed that the Plains Indians were savages, and the Indian problem required a military solution. Their aim was to use the army to wipe out the Indians – a solution that today we would call Genocide. |
| Emancipation Proclamation | President Abraham Lincoln issued the Emancipation Proclamation on January 1, 1863. It declared "that all persons held as slaves" within the rebellious states "are, and henceforward shall be free." |
| Abolitionism | The formal organised opposition to slavery which began as early as 1817 in the USA. |
| Fugitive Slave Act | Required all Americans to return runaway slaves to their owner, even if the slaves reached free states. This made the institution of slavery very visible to Northerners and anti-slavery feeling grew. |
| Plantations | In the early 19 th century, the South's economy was heavily based on cotton exports. Cotton was produced cheaply using slave labour on plantations – large slave run farms. |



American Civil War

7 Southern States left the rest of the USA and set up what was known as the CONFEDERATES. The remaining states in the north were called the UNION. The Union north won and the southern states re-joined the rest of the USA.

What were the Consequences?

- . At the end of the war in 1865, over 600,000 Americans had died. 400,000 were wounded.
- . The southern states were devastated by the war.
- . Government needed to re-build the south and also gave citizenship (freedom) to former African American slaves.

How did this Affect the West?

- . Many southerners wanted a **new start** to their lives in the West.
- . Many Black Americans decided to move away from the South to make a new life in the West.

| | Conflict with The Plains Indians | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|
| Little Crow's War (1862) | Chief of Dakota Sioux in Minnesota, where white population increasing. Agreed to give up 24m acres of land and live on reservations for \$1.4m. Gov delayed payment; reservation not big enough to hunt so Indians left. Sioux attacked settler towns, killed 600. Army arrived; some Indians put on trial; others forced onto poor reservation land where many died. | | | | | | |
| Sand Creek Massacre (1864) | When gold found in Montana, prospectors travelled across Cheyenne Indian land. Chiefs agreed to move to reservation, but young warriors refused. Cheyenne chief Black Kettle tried to reach agreement, but Colonel Chivington massacred 130 Indians, who were waving white surrender flags. | | | | | | |
| Red Cloud's War (1866-68) | Gold discovered in Montana 1862, prospectors travelled there on Bozeman Trial, across sacred Lakota Sioux land. This broke Fort Laramie Treaty. Red Cloud did not trust government, so fought rather than agreeing to allow forts along Bozeman Trail: 3,000 Indians fought 700 US soldiers. They won many battles. | | | | | | |

| Why was there TENSION between the White Settlers and the Plains Indians? | | | | | | | | |
|--|--|--|---|--|--|--|--|--|
| Fear of the Plains Indians Racism | | Threat to food | Shortage of grass | Government Pressure | | | | |
| the wrong way thinking they were being | The White Settlers had strong, racist views about the Plains Indians thinking they were Superior . This made them angry when Plains Indians stole horses from them. | with the disruption of the buffalo . The White Settlers killed huge numbers for | Thousands of oxen and horses travelling on the Oregan Trail resulted in a lack of grass. This meant there was tension and competion from both sides to feed their animals. | The White Settlers saw the Plains Indians keeping an eye on them, but even without being aggressive the settlers believed the Plains Indians were going to attack them. Some wanted the government to build Forts so the Army could protect them. | | | | |

Half-Term 2 History

| <u>Medieval</u> | (1250 – 1500) Approaches to TREATMENT and PREVENTION | | | | | | |
|-----------------------------|--|--|--|--|--|--|--|
| Religious/supernatural: | Prayer; saying mass; fasting; going on pilgrimage – all advised as religious "treatments". | | | | | | |
| | Some believed <u>disease was a punishment sent by God</u> , therefore you should not try to treat. | | | | | | |
| <u>Humoural Treatments:</u> | Physician suggested a treatment for each symptom, including bleeding and purging; bathing | | | | | | |
| | (only available to rich); remedies (made from herbs and spices) | | | | | | |
| Prevention: | PRAY! | | | | | | |
| | Practice basic hygiene (as recommended in the Regimen Sanitatis); purifying bad air (e.g. | | | | | | |
| | carrying a sweet-smelling "posy"; some measures were taken to keep towns clean, like | | | | | | |
| | clearing animal corpses) | | | | | | |
| Who cared for the Sick? | The Physician was university educated; expensive so only available if you were rich. | | | | | | |
| | Diagnosed illness by: observing sample of urine/faeces/blood and consulting astrological | | | | | | |
| | charts. | | | | | | |
| | Apothecary mixed the herbal remedies. | | | | | | |
| | Surgeon performed basic operations and bleeding. | | | | | | |
| | Approx. 1,100 Hospitals by 1500, 30% run by Church. Provide clean place to rest and eat | | | | | | |
| | well. Many hospitals were places for travellers to stay. Emphasis on Care not cure. | | | | | | |
| | Most people cared for at | | | | | | |

| Renaissand | Renaissance (1500 – 1700) Approaches to TREATMENT and PREVENTION | | | | | | |
|-------------------------|--|--|--|--|--|--|--|
| Religious/supernatural: | Time of discovery, scientific progress and experiments. | | | | | | |
| , | The church had less control over life so there was a chance for the spread of new ideas. | | | | | | |
| <u>Treatment</u> | <u>Transference</u> – disease could be transferred to an object by rubbing it. | | | | | | |
| | Lots more <u>herbal remedies</u> available from newly discovered lands of the New World. | | | | | | |
| | The new science of chemistry resulted in lots of chemical cures. | | | | | | |
| | Apothecaries and surgeons were better trained. | | | | | | |
| | Less hospitals available because many of these had been run by the monasteries, which | | | | | | |
| | were closed by Henry VIII. | | | | | | |
| Prevention: | Ideas about cause of disease had advanced, but treatments were still not effective. | | | | | | |
| | Therefore, prevention still very important. | | | | | | |
| | Cleanliness still important, though less use of public baths since arrival of syphilis. | | | | | | |
| | Moderation avoiding too much alcohol, cold, food etc. | | | | | | |
| | To <u>reduce miasma</u> homeowners in some towns had to pay a fine if they did not clean | | | | | | |
| | outside their homes. | | | | | | |

| C18th - C19 | C18th – C19th (1700 – 1900) Approaches to TREATMENT and PREVENTION | | | | | |
|------------------|--|--|--|--|--|--|
| Hospitals: | Florence Nightingale: Nurse in Crimean War 1854; hospitals appalling. | | | | | |
| | Made changes to way wounded soldiers treated; Sanitation (clean hospital, bedding etc); | | | | | |
| | Nurses to provide care & good meals provided. | | | | | |
| | Mortality rate (% of wounded dying) fell from 40% to 2% | | | | | |
| | Upon return to GB Nightingale set up <u>nursing college</u> , designed <u>hospital wards</u> & wrote | | | | | |
| | "Notes on Nursing". | | | | | |
| <u>Treatment</u> | Koch and Pasteur – Pasteur was the first to suggest that Germs cause disease. He | | | | | |
| | published his idea in <u>1861</u> called the <u>Germ Theory</u> . He argued that microbes in the air | | | | | |
| | caused decay not the other way round. – Koch used dye to identify microbes. He linked | | | | | |
| | specific disease to the particular microbe that caused them. This technique was called | | | | | |
| | 'Microbe hunting'. He identified several disease such as tuberculosis (1882) and Cholera | | | | | |
| | (1883). | | | | | |
| Prevention: | Edward Jenner developed vaccination to protect against smallpox. | | | | | |
| | Previously people had been inoculated (given a small dose of disease to develop immunity). | | | | | |
| | 1776 Jenner worked out you could make someone immune to smallpox by injecting a small | | | | | |
| | amount of Cowpox. | | | | | |
| | Lots of opposition from Church, inoculators and scientists. | | | | | |

Topic: Treatment and Prevention – Medicine through Time.

| TECHNICAL VOCABULARY | | | | | | |
|----------------------|--|--|--|--|--|--|
| Inoculation | Protecting someone from a disease by giving them a weakened version. | | | | | |
| Vaccination | A substance which gives someone a weakened form of a disease to protect them from it. | | | | | |
| Symptom | A negative side effect of the disease, e.g. a runny nose is a symptom of a cold. | | | | | |
| Diagnosing | The process of trying to work out what illness a patient has. | | | | | |
| Purging | A natural treatment that tried to rebalance the humours by giving the patient something to make them vomit or a laxative to make them defecate. | | | | | |
| Astrology | The study of the movement of planets and the stars. | | | | | |
| Flagellation | Flogging, whipping or beating oneself to punish someone for their sins or show a dedication to God. | | | | | |
| Urine Chart | A tool used by a physician to help them diagnose a patient's illness. They would look at a sample of the patients urine and compare it to a colour chart to determine why they were ill. | | | | | |
| Infirmary | A hospital. | | | | | |
| Apothecary | Mixed herbal remedies to try and create a cure for an illness. | | | | | |

| Modern (1900 -) Approaches to TREATMENT and PREVENTION | | | | | | | |
|---|---|--|--|--|--|--|--|
| Technology/Chemical | Magic bullet = attacks disease, not body | | | | | | |
| Cures: | Salvason 606 = first developed to attack syphilis | | | | | | |
| | <u>Penicillin</u> = 1928 <u>Alexander Fleming</u> noticed that in his lab, some mould | | | | | | |
| | killing bacteria in a dirty petri dish (it had drifted in through the window). He | | | | | | |
| | didn't study further but published his findings. | | | | | | |
| | Florey and Chain were studying antibiotics. They read Fleming's work and tested it | | | | | | |
| | successfully in <u>1940</u> on mice. They couldn't however produce large quantities. | | | | | | |
| | When US joined WW2 in 1941, Florey and Chain got backing from big <u>American</u> | | | | | | |
| | <u>Drug Companies</u> to mass produce. | | | | | | |
| | <u>Technology</u> has helped to identify and combat diseases | | | | | | |
| Prevention: | Government has assumed responsibility for Public Health. | | | | | | |
| | Compulsory vaccinations. | | | | | | |
| | Laws to provide health environment (e.g. Clean Air Act 1956) | | | | | | |
| | Communication about health risks of lifestyle choice (e.g. anti-smoking campaigns) | | | | | | |

| Theory of four humours | Theory that the body is made up of four humours. If one humour is out of balance then you will fall ill. |
|----------------------------|---|
| Theory of opposites | The idea to treat illness by re-balancing the humour. |
| Miasma | The theory that disease was caused by bad or dirty air and this led to illness and death. |
| Islamic beliefs | Doctors in hospitals 'For every disease Allah has given a cure'. Mental illness is treated with compassion. Avicenna's book the Cannon of Medicine documented 760 drugs. |
| Christian beliefs | Believed in 'Care not cure', illness and disease are a punishment from God for committing sins. Medical understanding based on Galen and Hippocrates' ideas. Human dissections are banned by the Church. 700 Hospitals in England – used for rest, rather than treatment. |
| Spontaneous Germination | An old belief that germs are the result of disease and decay, rather than the cause of them. This idea is now known to be false. |

Qu'est-ce que tu aimes faire pendant les vacances ?



| Opinions – Week 1 | | | | | | | |
|---|--------------------------|-----------|---------------|-----------|---|--|--|
| Opinion | Infinitive | Because | In my opinion | Verb | Infinitive | | |
| Ça me dérange de = I get annoyed | aller – to go | | | | se reposer – relax | | |
| Je suis fasciné par = It fascinates me | voyager – to travel | parce que | à mon avis | | lire – read | | |
| Je suis amusé par – I have fun | séjourner – to stay | | | | prendre des photos – take photos | | |
| Je suis déçu par – It disappoints me | nager – to swim | | | | acheter des souvenirs – buy souvenirs | | |
| Je m'en fiche de – I'm not bothered about | faire du ski– to ski | car | selon moi | je peux = | parler la langue- speak the language | | |
| J'apprécie = I appreciate | voler – to fly | | | I can | faire du tourisme – go sightseeing | | |
| Je préfère – I prefer | acheter – to buy | | | | essayer des repas locaux- try local dishes | | |
| Il vaut mieux – it's worth | se reposer – to rest | | | | découvrir la culture – discover the culture | | |
| J'en ai marre de – l'm fed up of | se bronzer – to sunbathe | | | | envoyer les cartes postales – send postcards | | |
| Je suis d'accord avec – I am in favour of | danser – to dance | | | | manger la nourriture typique = eat typical food | | |

| | | | Present | t Tense – Week 2 | | | |
|---------------------------|---------------------------------------|---|---------------------|--|--------------------|--------------------------|---|
| Verb | Time expression | Nouns | Connective | Noun | Verb | Infinitive | Nouns |
| Je vais = I go | toujours = always | en Espagne = to Spain en France = to France | mais = but | je = I | préfère = prefer | aller = to go | en italie = to Italy au Portugal = to Portugal |
| Je voyage = I travel | presque toujours = nearly always | en avion = by plane en voiture = by car | | mon frère ma sœur | • | voyager = to travel | en bateau = by boat en train = by train |
| Je séjourne = I stay | normalement = normally | dans une caravane = in a caravan dans une tente = in a tent | cependant = however | ma mère ma famille | préfère = prefers | séjourner = to stay | dans un hôtel = in a hotel dans un auberge = in an inn |
| Je nage = I swim | souvent = often | dans la mer = in the sea dans une piscine = in an indoor pool | | mon père mon cousin ma grand-mère | | nager = to swim | dans un lac = in a lake dans une piscine = in a swimming pool |
| J'achète = I buy | généralement = generally | les souvenirs = souvenirs un postal = a postcard | | mes parents et moi ma mère et moi | | acheter = to buy | un porte-clés = a keyring un béret = béret du fromage = some cheese |
| Je me bronze = I sunbathe | quelquefois = sometimes | à la plage = on the beach à côté de la piscine = next to the pool | pourtant = however | ma grand-père et moi mon frère et moi | préférons = prefer | se bronzer = to sunbathe | à la plage = on the beach à côté de la piscine = next to the pool |
| Je visite = I visit | parfois = sometimes | les monuments = the monuments le château = the castle l'aquarium = the aquarium | | mon père et moi mon oncle et moi | | visiter = to visit | le stade = the stadium le musée = the museum le parc d'attractions = the theme park |
| Je mange = I eat | rarement = rarely | les escargots = snails la tartiflette = cheesy potatoes | alors que = while | mes parents mes grands-parents | | manger = to eat | la nourriture typique = typical food les repas locaux = local dishes |
| Je bois = I drink | de temps en temps = from time to time | de la limonade = lemonade de l'eau minérale = water | | mes amis mes cousins | préfèrent = prefer | boire = to drink | le vin rouge = red wine la bière = beer |
| Je lis = I read | en général = generally | un roman = a novel un livre = a book | tandis que = whilst | | | lire = to read | un magazine = a magazine un journal = a newspaper |

| Past tense – Imperfect and Perfect Week 3 | | | | | | | | | |
|---|---------------------------|---|----------------------------|------------------------------------|-------------------|-----------------------------|--|--|--|
| Time Expression | Verb | Noun | Connective | Verb | Qualifier | Adjective | | | |
| Hier = Yesterday | je suis allé = I went | au Portugal = to Portugal | et = and | c'était = it was | trop = too | drôle = funny | | | |
| Avant-hier = The day | | aux Etats-Unis = to the USA | | | | amusant(e) = fun | | | |
| before yesterday | j'ai voyagé = I travelled | en car = by coach | mais = but | j'ai trouvé que c'était = I found | très = very | (dés)agréable = | | | |
| Hier matin = Yesterday | | en avion = by plane | | that it was | | (un)pleasant | | | |
| morning | j'ai bu = I drank | du coca = some coke | cependant = however | | un peu = a bit | ennuyeux(se) = boring | | | |
| Hier soir = Yesterday | | du jus de pomme = apple juice | | j'ai pensé que c'était = I thought | | ambitieux(se) = | | | |
| evening | j'ai lu = I read | un roman = energy | pourtant = however | that it was | assez = quite | ambitious | | | |
| La semaine dernière = Last | | un journal = petrol | | | | embêtant(e) = annoying | | | |
| week | j'ai visité = I did | le stade = the stadium | en revanche = on the other | j'ai cru que c'était = I believed | vraiment = really | rapide = fast | | | |
| Le week-end dernier = | | le musée = the museum | hand | that it was | | lent = slow | | | |
| Last weekend | | le parc d'attractions = the theme park | | | extrêmement = | cool = cool | | | |
| L'année dernière = Last | je me suis bronzé = I | à la plage = on the beach | toutefois = however | j'ai consideré que c'était = I | extremely | génial = great | | | |
| year | sunbathed | à côté de la piscine = next to the pool | | considered that it was | | fantastique = fantastic | | | |
| II y a deux mois = Two | j'ai mangé = I ate | une tarte tatin = caramelised upside-down | néanmoins = nevertheless | | | reposant = relaxing | | | |
| months ago | | apple tart | | ce n'était pas = it was not | | merveilleux = great | | | |
| | | un pain au chocolat = chocolate croissant | | | | animé = <mark>lively</mark> | | | |
| | j'ai séjourné = I stayed | dans un hôtel = in a hotel | 7 | | | difficile = difficult | | | |
| | | dans un auberge de jeunesse = in a youth | | | | facile = easy | | | |
| | | hostel | | | | divertissant = | | | |
| | | | | | | entertaining | | | |

| | | Future Tense – If Clauses | Week 4 | | | |
|---------------------------------------|-------------------------------|---|------------|---------------|--------------------------|------------------------------|
| If clause starter | Verb | Noun | Connective | In my opinion | I think that it would be | Adjective |
| Si j'ai beaucoup d'argent = If I have | j'irai = I will go | au Portugal = to Portugal | parce que | à mon avis | | génial = great |
| a lot of money | | aux Etats-Unis = to the USA | | | | fantastique = fantastic |
| Si j'ai assez d'argent = If I have | je visiterai = I will visit | les magasins locaux = the local shops | | | je pense que ce sera | reposant = relaxing |
| enough money | | le parc d'attractions = the theme park | | | je pense que ce seru | merveilleux = great |
| Si j'ai de la chance = If I am lucky | je voyagerai = I will travel | en car = by coach | | | | animé = lively |
| Si j'ai l'occasion = If I have the | | en avion = by plane | car | selon moi | je considère que ce sera | difficile = difficult |
| opportunity | je voudrai = I will want | découvrir la culture – discover the culture | | | | facile = easy |
| Si je peux = If I can | | parler la langue- speak the language | | | je crois que ce serait | divertissant = entertaining |
| | je mangerai = I will eat | une tarte tatin = caramelised upside- | puisque | pour moi | | amusant(e) = fun |
| | | down apple tart | | | il me semble que ce | (dés)agréable = (un)pleasant |
| | | un pain au chocolat = chocolate croissant | | en ce qui me | serait | ennuyeux(se) = boring |
| Si j'avais beaucoup d'argent = If I | j'irais = I will go | au Portugal = to Portugal | | 1 | Serait | ambitieux(se) = ambitious |
| had a lot of money | | aux Etats-Unis = to the USA | | concerne | | embêtant(e) = annoying |
| Si j'avais assez d'argent = If I had | je visiterais = I will visit | les magasins locaux = the local shops | | | | important = important |
| enough money | | le parc d'attractions = the theme park | | | | |
| Si j'avais de la chance = If I was | je voyagerais = I will travel | en car = by coach | | | | |
| lucky | | en avion = by plane | | | | |
| Si j'avais l'occasion = If I had the | je voudrais = I will want | découvrir la culture – discover the culture | | | | |
| opportunity | | parler la langue- speak the language | | | | |
| Si je pouvais = If I could | je mangerais = I will eat | une tarte tatin = caramelised upside- | | | | |
| | | down apple tart | | | | |
| | | un pain au chocolat = chocolate croissant | | | | |

| Opinions – Week 1 | | | | | | |
|---|--|--|-----------|--------------------------------------|--|---|
| Opinion | | Infinitive | Because | In my opinion | I think that it is | Infinitive |
| Ça me dérange de = I get annoyed Je suis fasciné par = It fascinates me Je suis amusé par – I have fun Je suis déçu par – It disappoints me Je m'en fiche de – I'm not bothered about J'apprécie = I appreciate Je préfère – I prefer | étudier = to study faire = to do aller = to go assister à = to attend | l'anglais = English le dessin = art l'espagnol = Spanish l'allemand = German le français = French les études commerciales = business studies le théâtre = drama | parce que | à mon avis | je pense que c'est je crois que c'est je considère que c'est | ennuyeux(se) = boring bon(ne) = good amusant(e) = fun obligatoire = compulsory divertissant(e) = entertaining éducatif(ve) = educational génial(e) = great intéressant(e) = interesting |
| Il vaut mieux – it's worth J'en ai marre de – I'm fed up of Je suis d'accord avec – I am in favour of | | la cuisine = food technology la biologie = biology la chimie = chemistry la physique = physics l'éducation religieuse = RE l'informatique= ICT l'histoire = history la musique = music la géographie = geography l'éducation physique = PE la technologie = technology les sciences= science les maths = maths à l'école = to school | | pour moi en ce qui me concerne | il me semble que c'est | passionnant(e) = exciting important(e) = important facile = easy utile = useful inutile = useless difficile = difficult phénoménal(e) = great fantastique = fantastic |

| | Week 2 – Present tense | | | | | |
|------------------|---------------------------|----------------------------------|---|--|--|--|
| Days of the Week | Verb | Time expression | NOUN | | | |
| Lundi | J'étudie = I study | toujours = always | à la bibliothèque = in the library | | | |
| Mardi | Nous étudions = We study | presque toujours = almost always | beaucoup de matières = lots of subjects | | | |
| Mercredi | J'écoute = I listen | normalement = normally | au professeur = to the teacher | | | |
| Jeudi | Nous écoutons = We listen | souvent = often | de la musique = music | | | |
| Vendredi | Je parle = I speak | quelquefois = sometimes | avec mes amis = with my friends | | | |
| Samedi | Nous parlons = We speak | parfois = sometimes | avec mes copains = with my friends | | | |
| Dimanche | Je regarde = I watch | rarement = rarely | un vidéo = a video | | | |
| | Nous regardons = We watch | ne jamais = never | | | | |
| | Je lis = I read | | un livre = a book | | | |
| | Nous lisons = We read | | à la bibliothèque = in the library | | | |
| | Je mange = I eat | | à la cantine = in the canteen | | | |
| | Nous mangeons = We eat | | un sandwich = a sandwich | | | |
| | Je bois = I drink | | en classe = in class | | | |
| | Nous buvons = We drink | | à la laboratoire = in the laboratory | | | |
| | | | l'eau minérale = water | | | |
| | J'écris = I write | | dans mon cahier = in my exercise book | | | |
| | Nous écrivons = We write | | dans mon agenda = in my planner | | | |

| | 1 | | perfect and Perfect Week 3 | | | |
|----------------------------|---------------------------|---|----------------------------|------------------------------------|-------------------|-------------------------|
| Time Expression | Verb | Noun | Connective | Verb | Qualifier | Adjective |
| Hier = Yesterday | j'ai étudié = I studied | le français = French | et = and | c'était = it was | trop = too | drôle = funny |
| Avant-hier = The day | | l'anglais = English | | | | amusant(e) = fun |
| before yesterday | | les maths = Maths | mais = but | j'ai trouvé que c'était = I found | très = very | (dés)agréable = |
| Hier matin = Yesterday | j'ai travaillé = I worked | à l'école = at school | | that it was | | (un)pleasant |
| morning | | aux cours = in lessons | cependant = however | | un peu = a bit | ennuyeux(se) = boring |
| Hier soir = Yesterday | j'ai parlé = I spoke | avec mes amis | | j'ai pensé que c'était = I thought | | ambitieux(se) = |
| evening | | avec le professeur | pourtant = however | that it was | assez = quite | ambitious |
| La semaine dernière = Last | je suis allé = I went | à l'école = to school | | | | embêtant(e) = annoying |
| week | | à la récré = to break | en revanche = on the other | j'ai cru que c'était = I believed | vraiment = really | rapide = fast |
| Le week-end dernier = | | | hand | that it was | | lent = slow |
| Last weekend | | | | | extrêmement = | cool = cool |
| L'année dernière = Last | | | toutefois = however | j'ai consideré que c'était = I | extremely | génial = great |
| year | | | | considered that it was | | fantastique = fantastic |
| II y a deux mois = Two | | | néanmoins = nevertheless | | | reposant = relaxing |
| months ago | | | | ce n'était pas = it was not | | merveilleux = great |
| Lundi = On Monday | j'ai bu = I drank | de l'eau minérale = water | | | | animé = lively |
| Mardi = On Tuesday | | de la limonade = lemonade | | | | difficile = difficult |
| Mercredi = On Wednesday | j'ai écrit = wrote | dans mon agenda = in my planner | | | | facile = easy |
| Jeudi = On Thursday | | dans mon cahier = in my exercise book | | | | divertissant = |
| Vendredi = On Friday | j'ai mangé = I ate | un sandwich = a sandwich | | | | entertaining |
| Samedi = On Saturday | | un pain au chocolat = chocolate croissant | | | | |
| Dimanche = On Sunday | j'ai porté = I wore | mon uniforme scolaire = my school uniform | | | | |

| | | Future Tense – If Clauses | Week 4 | | | |
|---|---|--|-------------|-------------------------------------|--|---|
| If clause starter | Verb | Noun | Connective | In my opinion | I think that it would be | Adjective |
| Si j'ai beaucoup d'argent = If I have a lot of money Si j'ai assez d'argent = If I have enough money Si j'ai de la chance = If I am lucky Si j'ai l'occasion = If I have the opportunity Si je peux = If I can Si j'ai le choix = If I have the choice Quand je serai plus âgé(e) = When I am | j'irai = I will go je voudrai être = I will want to be je travaillerai = I will work je ferai = I will do | à l'université = to university au lycée = to college médecin = a doctor avocat = a lawyer pompier = a firefighter agent de police = a police officer professeur = a teacher à l'étranger = abroad un stage = a work experience placement | car puisque | à mon avis selon moi pour moi | je pense que ce sera je considère que ce sera je crois que ce serait il me semble que ce | génial = great fantastique = fantastic reposant = relaxing merveilleux = great animé = lively difficile = difficult facile = easy divertissant = entertaining amusant(e) = fun (dés)agréable = (un)pleasant |
| Si j'avais beaucoup d'argent = If I had a lot of money Si j'avais assez d'argent = If I had enough money Si j'avais de la chance = If I was lucky Si j'avais l'occasion = If I had the opportunity Si je pouvais = If I could Si j'avais le choix = If I had the choice | j'irais = I would go je voudrais être = I would like to be je travaillerais = I would work | un emploi d'été = a summer job au Portugal = to Portugal aux Etats-Unis = to the USA mécanicien = a mechanic maçon = a builder infirmier = a nurse facteur = a delivery driver plombier = a plumber à l'étranger = abroad | | en ce qui me concerne | serait | ennuyeux(se) = boring ambitieux(se) = ambitious embêtant(e) = annoying important = important |

| Quand je serai plus âgé(e) = When I am | je ferais = I would do | un stage = a work experience placement | |
|--|------------------------|--|--|
| older | | un emploi d'été = a summer job | |
| | | | |

Year 11

Subject: Performing Arts

Topic: Unit 3

Other factors that will affect your performance

To determine what factors will affect your performance, you should ask yourself the following questions:

- Where will the performance take place?
- Who will be your target audience?
- What style or genre will the performance be in?

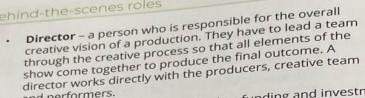
Whether you specialise in acting, singing or dancing, creating a performance piece could potentially involve all three disciplines. As the director, you manage the creative process and final production. Your first big decision is deciding what type of performance you want to create. For example, it could be:

- · a community play
- a street performance
- a performance in a small-scale theatre
- an open-air production
- a festival
- · a concert.

stage roles

- Actor a person who acts on stage, or in TV or film. They work with the director and choreographer.
- Stand-up comedian a person who entertains a live audience using humour and comedy.
- Circus artist a person who entertains a live audience with circus skills and acts. They work with the director and choreographer.
- Session musician a singer or instrumentalist who performs in a live or recorded session or gig. The performer is usually employed on a session-bysession basis. The ability to read music, improvise and perform by ear are essential for a session musician. Knowledge of a wide range of styles is also important. Most session musicians work as freelancers. Production companies or record labels may contact the session musician directly or use a contractor (fixer). There are usually agreed rates and terms and conditions for session musicians; most of the time, a session musician is paid a fee and the deal is done - no further payment is required. Unions will usually support musicians with their rights and payments if appropriate. They work with the musical director.
- Singer a person who sings to entertain a live audience individually or as part of an ensemble. They work with the director, choreographer and musical director.
- Dancer a person who performs routines to live audiences as part of entertainment shows, or TV or film productions. A dancer works with a choreographer or director to learn a repertoire and create choreography. In musical theatre, a dancer would also be required to act and sing.

Behind-the-scenes roles





- **Producer** a person who researches funding and investment to finance a **Producer** – a person who researches full ding and performance of the show. They production. They also supervise the creation and performers and manages. production. They also supervise the creative team and performers and manage the work directly with the director, creative teams technical and stage management teams.
- Stage manager a person who is responsible for the technical details of the Stage manager – a person who is responsible for the stage during each performance. They production and is fully responsible for the stage during each performance. They production and is rully responsible to the lighting, costume and set assist the director during rehearsals and supervise the lighting, costume and set Choreographer – a choreographer creates dance routines for performances.
- They must follow the brief to create routines appropriate for the type of performance. A choreographer recruits and auditions dancers, teaches the set repertoire and develops movement material that forms part of the final performance. They work alongside costume, prop, lighting and set designers, and directly under the director and show producer.
- Set designer a person who designs, creates and builds the set for a show or scene.
- Theatre technician a person who works backstage and manages the stage crew. They prepare and maintain the set/stage by moving scenery and may be responsible for setting up or adjusting video, audio and lighting equipment. The theatre technician works with the stage crew, set designer, lighting designer and director.
- Sound designer a person who creates sound effects and atmosphere to fit the narrative of a film or live performance. A sound designer would work directly with the musical director, composers and live musicians.
- Lighting designer a person who designs the lighting plot for a film or live performance to help create a specific atmosphere to fit the narrative. The lighting designer works directly with the director, choreographer, set designer, costume designer and sound designer to ensure the safety of performers and that all elements are functioning as intended.
- Stage crew a group of people also known as stage hands who work behind the scenes during the show or a live performance to ensure that scene changes are carried out at the correct time.

Building Tension:

Tension, or **dramatic tension**, often lies with the development of **suspense** in a drama. As the **audience** anticipates certain outcomes in the plot, the **tension builds**. An example **of rising tension** occurs in a mystery play or whodunit. In these instances, the audience is left in a constant state of **suspense** trying to guess the real culprit.

The development of **tension** usually parallels the advancement of the plot, leading to a **crisis or climax**. **Tension** is closely linked with the **element of timing**.

The Audience:

Using the **imagination** of the **audience** and the **suspension of disbelief** is extremely important when developing **tension**, **suspense and atmosphere**.

Technical elements:

The use of **sound effects, music, lighting, costume and set** in a performance can be pivotal in creating **suspense and atmosphere**.

Symbol

A symbol is something which stands for, or represents something else. Symbols are often used in drama to deepen its meaning and remind the audience of the themes or issues it is discussing. A prop often has a particular significance that an audience will instantly recognise when used symbolically in the work.





Lighting

Altering the **level of light** and combining the light with various colours can help to significantly change the **mood** and **atmosphere** of a scene.

- A low lighting level, with dark blues, greens or reds, can make the stage very eerie and filled with dramatic tension.
- A high lighting level of warm, coloured light can produce a very happy and energetic feeling on stage.

| | Subject Terminology | | | | |
|---------------------|---|--|--|--|--|
| Suspense | A state or feeling of excited or anxious uncertainty about what may happen. | | | | |
| Mood | Created by the director, performers and performance elements all working together. Eg: mysterious, stressful | | | | |
| Atmosphere | Atmosphere is the overall feeling the audience experiences as a result of the mood created in the scene. | | | | |
| Climax/ Anti-climax | This is the building and release of tension in drama . | | | | |
| Play within a play | It means that your characters are performing a play onstage for their own benefit, as a part of the play | | | | |
| Tension | Tension is a growing sense of expectation within the drama | | | | |
| Suspension of | The people in the audience know that what they are | | | | |
| Disbelief | seeing on stage or screen is a pretend reality, but they are pretending that they do not know that. | | | | |

Music and Sound

Sound and music are extremely effective when conveying the **atmosphere** required for a specific **scene** or moment. **A sound designer**, working with the director, will:

- Identify moments where the **sound** can enhance the **action** on stage for an audience.
- Decide what sort of sound is required (music, sound effect or combination).

Music will often imply that the drama on stage is building to a **climax**, making the **audience** think that something is going to happen and putting them on edge.

Not Dynamics...

Articulation is the way the performer plays / sings the note, not how loud they do it. That would be Dynamics instead.

ARTICULATION

(How the notes are played)

More Than One...

You can write more than one type of articulation for the same note. For example:



Staccato

Staccato means short and detached /seperated. *You will likely hear a gap between each note.





Shown by writing a dot just above/below the head of the note.

Accented

Give extra emphasis or force to the marked notes.





*You can alissando upwards or downwards

Shown by writing an accent above/below the head of the note.

Legato

To play the music smoothly, without breaks between notes.

Slurred

Playing the notes in a legato style, without breaks between notes.



Shown with a slur on the score.

How? Some examples:

String Instruments - Play the notes without changing the direction of the bow.



Brass & Wind Instruments - Only tongue the first note, not the others.

Glissando

A slide between two notes.

Marked with a glissando on the score.



Some Associated Markings On Vocal Music...

Phrase markings

Slurs drawn onto the score to show singers what to sing in one breath.

Syllabic

Where the music is written with one note per syllable.



Twin-kle, twin-kle,



li - ttle star

Melismatic

Where the music is written with more than one note per syllable.

*A slur is used to show the notes on one syllable



Musical forms and devices

Area of study 1 - Eduqas GCSE Music

Baroque era (1600-1750)

- Harpsichord
- Ornaments
- Terraced dynamics
- · Basso continuo
- Small orchestra (mostly strings, plus some wind)
- Suite, sonata, oratorio, chorales, trio sonata
- Bach, Handel, Vivaldi

Classical era (1750-1810)

- Slightly larger orchestra
- Piano introduced
- Alberti bass
- String quartets
- Symphony, solo sonata, solo concerto
- Balanced, regular phrases
- Haydn, Mozart, Beethoven

Romantic era (1810-1910)

- Lyrical, expressive melodies
- Large orchestra
- Wider range of dynamics
- Richer harmonies and use of chromatic chords
- Programme music
- Opera symphony
- Tchaikovsky, Grieg, Schumann, Dvorak, Brahms, Verdi, Wagner

Form and structure

BINARY

A_B

Two sections: A usually ends in a related key (e.g. dominant or relative minor), but B returns to the tonic. B will contain with some change/contrast.

TERNARY

ABA

Three sections: section B provides a contrast (e.g. new tune key change). A may return exactly or with some slight changes.

RONDO

ABACA

A longer form: A returns throughout the piece, with contrasting sections called 'episodes', containing new ideas and using different keys.

MINUET AND TRIO II: AB: II II:CD :II AB

The minuet was a type of graceful dance from the 17-18th century, and was often used as the 3rd movement in symphonies in the

classical era. The minuet had two repeated sections, the trio had two new repeated sections, with a return to the minuet at the end (no repeat).

VARIATIONS

A a A A A

The main theme (tune) is repeated and developed a number of times in a variety of different ways.

STROPHIC

AAA

A simple form where the song uses the same melody over and over.

Devices Repetition

| | exactly. |
|----------|--|
| | An idea is copied in another part. |
| Sequence | Repetition of an idea in the same part at a higher/lower |

eduqas

A musical idea is repeated

Ostinato pitch.
A short, repeated pattern or phrase.

Drone A long held or constantly repeated note(s).

Arpeggio/ The notes of a chord played individually.

Alberti bass A broken chord accompaniment (I,V,iii,V) common in the Classical era.

Anacrusis

An 'up-beat' or pick-up before the first strong beat.

Dotted
 A rhythm using dotted notes (gives a 'jagged' or 'bouncy'

type of effect).

Syncopation Off beat accents.

Conjunct Notes that move in steps.

Notes that move in leaps/intervals.

Balanced parts of a melody (like the phrases in a sentence) e.g. four bar phrases.

Cadences

Disjunct

Regular

phrasing

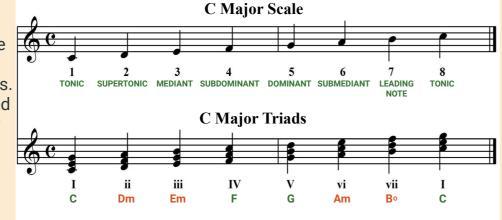
The two chords at the end of a phrase

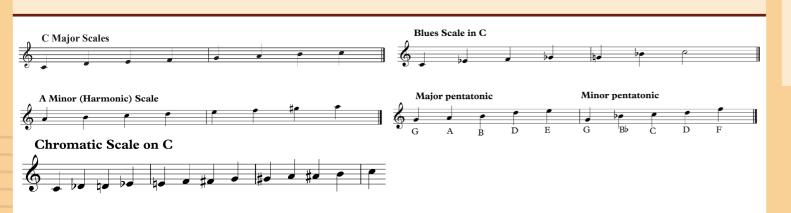
| Perfect | V-I | Strong ending – sounds 'finished'; a musical full stop. |
|-------------|-----------------|---|
| Plagal | IV-I | Sounds finished but 'softer'; Amen. |
| Imperfect | I-V, ii-V, vi-V | Sounds unfinished. |
| Interrupted | V-vi | Moves to an unexpected chord; 'surprise'. |

Scales and chords

A CHORD is a group of two or more notes played at the same time. A TRIAD has three notes. A CHORD SEQUENCE/PATTERN is a series of chords. DIATONIC HARMONY is based on the chords of major/minor scales.

Primary chords I, IV, V Secondary chords ii, iii, vi, vii





Half-Term: HT1 Subject: KS4 Art Threshold Concept Link(s): Analyse and write critically about the work of others demonstrating critical understanding

| TE | TECHNICAL VOCABULARY | | | |
|-----------------|---|--|--|--|
| Analyse | To examine in detail | | | |
| Annotate | Explanatory notes | | | |
| Critical | Judge and form opinions | | | |
| Context | The full picture-when, where, events etc. | | | |
| | that have influenced the artist | | | |
| Review | Evaluate | | | |
| Reflect | Reconsider and modify | | | |
| Independent | On your own | | | |
| Formal Elements | The Formal Elements are the parts used | | | |
| | to make a piece of artwork. They should | | | |
| | be commented on when discussing the | | | |
| | work of others | | | |
| Interpret | Explain/translate art work | | | |
| Opinion | Your belief and thoughts | | | |

Developing ideas

- 1. Primary sources- take **lots** of your own photo responses and choose at least 4 compositions to draw out, on one or 2 sides.
- 2. Link your work to a chosen artist(s)/art style
 - What does the artist draw?
 - What media do they use?
 - What colour scheme do they use?
 - What is their work about; meaning, mood etc.?
- 3. Use a variety of media, experimenting with new and different techniques
- 4. Use a variety of colour schemes
- 5. Review and evaluate:
 - What media you liked and why?
 - What you like/dislike about your ideas and about the changes to the drawings?
 - How you used the media and what effects you achieved?
 - What problems you had or what happy accidents occurred?
 - Which material and process is most suitable for each idea and why?
 - What connections to artists have you made and how successful are they?

6. Choose the most successful idea, ensuring that you will be able to reproduce it

Personal Portfolio

You should have researched 4 different artists. From the 4 pick your favourite and research further This will add to AO1, AO2 and AO3









For the chosen artist you will need the following;

Double page

Reason for choice and further analysis

Artist copy x 2

More examples of artists 'work

Knowledge Organisers – Core principles Page 1

| Term | Explanation | Term | Explanation |
|--|---|-------------------------------------|---|
| Iterative design | Small steps with constant changes as feedback is gained. Feedback is used to help the design refine further developments. | Primary data sources of information | First hand information |
| Secondary data sources | Information obtained from others | Ergonomics | Study of human interaction between the user and the product. Feel Comfort Sound Ease of use Smell |
| Anthropometrics | Measurements of the human body – Maximum and minimum. Length Height Weight Angles | Design brief | This is a written statement that says what you are going to design make and evaluate. It should include your target market and where it will be used. |
| Manufacturing specification | Details relating to the products function. How its made Time scale Health and safety Quality control Quality assurance CAD Drawings in 2D and 3D Cutting list Components used Tolerances needed. | Coco Channel 1883- 1971 | French fashion designer for fragrances, accessories and clothing. Huge company today! |
| Alexander McQueen 1969-2010 | British fashion designer who wowed people with his shocking and unconventional designs | William Morris 1834-1896 | Main part of the arts and crafts movement in 1880's using nature as inspiration |
| Mary Quant 1934 – present. | Famous for the mini skirt and flower power inspiration | Vivienne Westwood 1941 – present | Establishing the punk image of the 70's. Her designs are still popular today. |
| Marcel Breur 1902-1981 | Maker of Bauhaus. Most famous was the Wassily chair and first to be made from tube steel. He went on to become an architect. | Norman Foster 1935-present | Famous for the Gherkin and Wembley stadium including the great court. |
| Charles Rennie Mackintosh 1868-1928 | Mackintosh was a Scottish designer using ART NOUVEAU as a design influence. | Aldo Rossi 1931- 1997 | Italian architect who became a product designer. Post modern influences to produce building like this. |
| Gerrit Rietveld 1888-1964 | Dutch architect and furniture designer to produce the movement De Stijl . Famous for using primary colours and geometric lines. | Ettore Sottsass 1917-2007 | Austrian born Italian. Famous for revamping officing style machines such as this Valentine type writer. |
| Raymond Templier 1891- 1968 | Belonged to the art deco movement and designed jewellery. | Louis Comfort Tiffany 1848-1933 | American art designer and artist known for his glass designs. His famous was the tiffany lamp. |
| Sir Alec Issigonis 1906-1988 | Famous for car design and joined Morris motors to produce the iconic Morris Minor and mini! | Alessi | Founded by Giovanni Alessi in 1921 and produced metal wear for tables. |

Knowledge Organisers – Core principles Page 2

| Term | Explanation | Term | Explanation |
|-------------------------|---|---------------------------|---|
| Braun | German company founded in the 1920's. Famous for shavers and audio equipment. | Apple | IN 1976, <u>Steve jobs</u> along with two other founded Apple. Largest IT company in the world. Famous for coming up with innovative designs that will be iconic for ever. |
| Dyson | Sir James Dyson started to make improvements to the traditional vacuum cleaner in 78 and produced the famous bagless vacuum cleaner. Also, no designing fans and lighting products. | GAP | American company selling clothing. Simply and clothing using clear, bold colours. |
| Primark | International clothing retailer with its main business in Ireland. Low cost 'fast fashion' trend. Cloths made in China, Bangladesh and India. | ZARA | Spanish clothing company known for selling products that react to client's trends – Just in time production approach. Began to work with GREENPEACE in 2011 to eliminate harmful toxins from cloths. |
| User-Centred design | Means to fulfil the wants, needs and limitations of the user | Systems approach | If you are designing a product with electronics or mechanisms use a sequence chart to show input/ process/ out put so they can see how it would work. |
| Sketching | Getting ideas down quickly is important. Do this on plain paper or scaffolded sheets to help you with scale and proportion. | Modelling and its purpose | 2D models are quick to produce Quick to produce Using materials such as card is cheap and easy to form 3D ideas – they can be recycled after and doesn't cost anything Show size, scale and proportion. Show the development between each design. These can be photographed and recorded into your portfolio to show how they will work. |
| Testing | To show the intent of the design and how it will work. Destructive testing – used to determine how the product will respond under pressure. Make decisions on materials used. Market testing – inspection of parts/ functional testing and its looks. | Oblique | Quick to produce and simple technique. Draw the idea as a plan and then use a 45 degree angle to project the sides back. |
| Isometric projection | 30 degree angle for height width and depth Dimensions can be done accurately. Good for geometric shapes Fairly realistic Use measurements on the drawing | Perspective drawing | Uses vanishing points Construction lines go back to the vanishing points Realistic drawing |
| Annotating drawings | Adding notes to a drawing to explain detail Explaining if parts of the design meet the needs of the specification Express subjective and objective views | Collaborative designing | Some designers may have more strengths in parts of the design process. Some people are good at risk taking? Innovation Identifying problems Some people may have contacts in areas to help with a problem. Speed up the process – in development people can work on different aspects of a solution. |
| Marketability | Look goof and fully functional Potential to be commercially viable Fill and | meet a gap in the market | Compete with other products Easily tested |

Different Activity levels

Energy required for;

- Growth
- Movement
- Body warmth
- Production of sound
- **Brain function**
- Energy comes from Carbohydrate first
- Fat second source
- Protein only when carbs and fat stores are depleted Food and drinks which contain carbohydrates, protein and fats.

- Increased activity requires increased energy intake preferably in the form of carbohydrates
- Decreased activity levels due to age or health issues calorie intake should be reduced accordingly
- People recovering from illness or an operation should get their calories from protein rich food to increase tissue repair and healing.
- Calories from starchy carbohydrates are better as they burn slowly therefore releasing energy at an even rate throughout the day

| TECHNICAL VOCABULARY | | |
|-------------------------------|--|--|
| RDI- Recommended daily intake | The amount of each nutrient recommended to | |
| | meet the requirements of the majority population | |
| Free sugars | Sugars, honey, fruit juices, sugar added to food | |
| Protein complementation | Combining two incomplete proteins to get a | |
| | complete one | |
| BMR- | Basal metabolic rate- the speed of the metabolism | |
| | in the resting state | |
| Peak bone mass | The amount of bone present when the skeleton has | |
| | stopped growing and are at a maximum density | |
| Osteoporosis | The production of new bone cannot keep up with | |
| | the removal of old bone | |
| Anaemia | When you are unable to make enough red blood | |
| | cells to carry oxygen around the body | |
| Pernicious anaemia | Caused by low red blood cell production and the | |
| | body is unable to absorb Vit B12 | |
| PAL | Physical activity level-The amount of extra activity | |
| | you do per day such as sport. | |
| EAR | Estimated average requirement- Calories required | |
| <u> </u> | per day to maintain body weight | |

Different Life Stages

Children 1-12

NEEDS-All nutrients are important especially proteins vitamins and minerals

- A good variety of foods should be introduced early
- Food needs to be made into fun shapes to encourage variety in the diet
- Get kids involved in the cooking
- Small portions, presented well
- Limit the amount free sugars in foods and drinks
- Children should be active, can become more sedentary playing computer games.

This can lead to obesity

Adolescents (TEENAGERS)

NEEDS- All nutrients are important especially proteins vitamins and minerals

- The body is growing from a child into an adult
- Minerals are taken up into the bones to reach peek bone mass as adults
- Girls start menstruating need plenty of iron to avoid anaemia

Adults

NEEDS- All nutrients are important especially proteins vitamins and minerals

- Keep body weight within a healthy range
- Eat less calories as BMR decreases with
- Eat sufficient calcium and vitamin D to promote healthy bones
- Eat plenty of fibre as the digestive system slows down with age
- Vitamin C aids the uptake of Iron to avoid anaemia
- Salt intake should be kept below >6g to avoid high blood pressure
- Body reaches peak bone mass at 30yrs
- Avoid high fat/ high sugar food

Older Adults

NEEDS-Vits A, C, E to prevent age related eye conditions. Vit B to help body's use of energy

- Body systems such as digestion and circulation slow down.
- Metabolic rate slows down, so reduction of carb intake
- High
- Less active as weight may be gained
- Smaller appetite

| Special diets | | | |
|--|---------------------------------------|--|---|
| Type of diet | Reason | What can be eaten | Foods to avoid |
| Vegan | Health, religion, ethical | All plant based foods | All animal foods and products |
| Lacto-ovo vegetarian (Normal veggie) | Health, religion, ethical | All plant based foods, Dairy and eggs | No food which involves killing an animal |
| Lacto vegetarian | Health, religion, ethical | All plant foods All dairy | No food which involves killing an animal and eggs |
| Gluten free | Coeliac disease | Rice, soya, maize, pulses, beans and nuts | Foods containing wheat. Biscuits, pasta, bread |
| Lactose free | Lactose intolerance | Lactose free products Alpro, soya milk, oat milk | Foods containing dairy |
| Low salt | Heart disease and high blood pressure | Fruit and veg, dairy and unprocessed meat | Yeast extract, processed foods, sauces |
| Low sugar | Diabetes, weight reduction | Fruit and veg, dairy and unsweetened products | Foods full of sugars and fizzy drinks |

| U | n | it | 2 |
|---|---|----|---|
| | | | |

AC1.2 LO1

Half-Term 1 – Planning & Building

Clearance cost

Skip

Digger

Dumper

Specialist tools

Disconnection of old electrics

Cap off drainage

Onsite toilet

Scaffold

Labour

Driver

Cement

Building sand

Brick tie

<u>Build</u>

Brick

Block

Steal

Waste pipe

UPVC windows/conservatory

Scaffold

Insulation

Buying

Ebay

Amazon

Jewson

Turnballs

B&Q

Wickes

Travis Perkins

Central Skip hire

Scaffolding

Site toilet

Look at the above and write as much information about what the requirements are for building.

Subject - Construction

How many bricks?

There are 60 bricks per square metre m2, if you are building a half-brick wall or a one-layer wall.

How many blocks?

There are approximately 10 concrete blocks per square metre m2.

Using the calculations below workout the cost for 10m2

Brick wall

Standard brick wall

Garden wall

Retaining wall

Decorative brick wall

Repair & Maintenance

Brick Wall Jobs Price Range

Standard brick wall £50-£120 per m²

Garden wall £60–£150 per m²

Retaining wall £70-£200 per m²

Decorative brick wall £80–£250 per m²

Repair and Maintenance£30-£100 per m²

How much are the following tradesperson charging per hour?

Groundsman

Labourer

Bricklayer

Electrician

Plumber

Plasterer

Driver

Window fitter

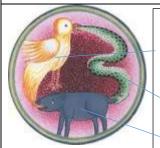
Subject **RS** Buddhism: beliefs and teachings.

| Before enlightenment | | |
|--|--|--|
| How long ago was Buddhism founded? | Buddhism was founded around 2500 years ago. | |
| Who is the founder of Buddhism? | The founder of Buddhism was Siddhartha Gautama, he was born around 500BCE. | |
| Who were Siddhartha's parents and what did this mean for his lifestyle? | Siddhartha's parents were King Suddhodana and Queen Maya and he had a life of 'material' luxury. | |
| Queen Maya had a dream before Siddhartha was born what was it? What did it mean? | Queen Maya dreamt about a little white elephant who told her that her child would be holy. | |
| After his mother died the King tried to protect his son from all hardships – what were the four sights that changed Siddhartha's life? | The four sights were old age; illness; death and a holy man. | |
| When he was an ascetic how was Siddhartha trying to understand the problem of suffering? | Siddhartha practiced living in extreme temperatures and places of danger; he slept on thorns and survived on very small amounts of food. | |
| How did the demon Mara try to distract Siddhartha from gaining enlightenment? | Mara tried to distract Siddhartha by sending his daughters; his armies; offering control of his kingdom and questioning Siddhartha. | |
| How long did Siddhartha's enlightenment take? | Siddhartha's enlightenment took place during 3 parts (watches) of the night. | |

| After Enlightenment: Teachings | | |
|---|---|--|
| What is the Dhamma? | Dhamma refers to the Buddha's teachings but is also about truth; training and universal 'law'. | |
| What are the three refuges (or jewels) in Buddhism? | The three refuges (jewels) in Buddhism are the Buddha; the Dhamma and the Sangha (the Buddhist community). | |
| What is the idea of dependent arising? | Dependent arising is the idea that everything arises in dependence upon conditions. It is shown as the Wheel of Life. | |
| What does the Tibetan Wheel of Life show? | The Wheel of Life shows dependent arising as applied to birth, death and rebirth (samsara). | |
| What are the three marks of existence? | The three marks of existence are suffering (Dukkha); impermanence (anicca) and having no permanent, fixed self or soul (anatta). | |
| What are the 3 recognised types of suffering? | The three types of suffering are ordinary suffering (dukkha-dukkhata); suffering because of change (viparinama-dukkha) and suffering because of attachment (samkhara-dukkha). | |
| How does anicca (impermanence) affect the | Anicca affects the world in the three following groups – living things; non-living things and people's minds. | |
| What does the story of Nagasena and the chariot | The story of Nagasena and the chariot illustrates that there is no fixed part to a person. | |
| What are the Four Noble Truths? | The Four Noble Truths are- 1/ dukkha (suffering); 2/ samudaya (causes of suffering); 3/ nirodha (suffering can end) and 4/ magga (there is a way to end suffering). | |
| What are the 5 aggregates/skandhas? | The 5 aggregates/skandhas are Form: Sensation; Perception; Mental Formations and Consciousness. | |

| TECHNICAL VOCABULARY | | |
|-----------------------|---|--|
| Buddha | This is a title meaning 'awakened one' or 'enlightened one.' | |
| Jakata | Popular stories about the life of Buddha. | |
| Ascetics | People who live a simple and strict lifestyle with few pleasures or possessions. They are searching for spiritual wisdom. | |
| Meditation | The practice of calming and focussing the mind. | |
| Enlightenment | Spiritual wisdom that comes from understanding the true reality of nature. | |
| Mara | A demon that represents spiritual obstacles and temptation. | |
| Dhamma | The truth Buddha realised when he became enlightened. | |
| The three marks of | Dukkha (suffering); Anicca (impermanence) and Anatta (nothing is | |
| existence | permananet). | |
| The four noble truths | These are dukkha (suffering); samudaya (cause of suffering); nirodha (suffering can end) and magga (there is a means to end suffering). | |
| Arhat | A perfected person | |

Suffering, causes and routes to happiness



The 3 poisons

Greed/desire shown by a cockerel.

Hatred/anger shown by a snake.

Ignorance shown by a pig.

The **threefold way** makes up the sections of the eightfold path. They are ethics; meditation and wisdom.



Ethics

Meditation

Wisdom



The Eightfold Path has 8 aspects that Buddhists practice and live by in order to achieve enlightenment. It is split into the threefold way and can be understood as a range of practices that should all be developed. They are: -

Ethics – right speech; right action; right livelihood.

Meditation – right effort; right mindfulness; right concentration.

Wisdom – right understanding; right intention.

How does a person become an **Arhat**?

An arhat has overcome the main sources of suffering and has become enlightened so the cycle of rebirth ends and reach nibbana, this means that have followed and fulfilled the Eightfold Path.

| Religion, crin | ne and punishment and reasons for crime |
|---|---|
| In the UK who do the police arrest? | Police arrest people who are suspected of having broken the law by committing crimes. |
| If the police question someone and believe they committed a crime what happens? | If the police are confident that they have the right person, then the person will be charged with that offence. |
| What happens to a person charged with a serious crime in the UK? | Suspected offenders face a hearing in front of a local magistrate before going to Crown Court before a judge and a jury of 12 people. |
| What do most serious offences carry? | A life sentence in prison although this doesn't mean people stay in prison until they die. A life sentence is usually 25 years. |
| Can a UK court impose a sentence of physical harm or death? | No UK court can impose physical harm or death in some countries the death penalty is allowed. |
| What is Civil Law? | Civil law concerns disputes between individuals or groups – landlords/tenants etc |
| What do the teachings in the Bible warn against? | They warn against having any evil or wrong thoughts or intentions. |
| In a religious sense who can evil be linked to? | Evil can be linked to the devil (Satan) who is the source of all that is considered evil. |
| Do Christians believe that people are evil? | Many would say there is no such thing as an evil person. Human beings are imperfect and suffer from an original sin. |
| What are some reasons for committing crime? | Poverty; opposition to unjust laws; hate; greed; addiction; mental illness and upbringing. |

| Christian attitudes | | |
|--|--|--|
| What are the general Christian attitudes to lawbreakers? | Christians are against people breaking the laws of their country as laws are there to protect the rights and security of all citizens. | |
| What do Christians believe about lawbreakers? | Some believe that a punishment should be as severe as the crime committed; others believe that the lawbreaker should be helped so that they do not re-offend. They hate the crime but not the person. | |
| What are Christian attitudes to how lawbreakers should be treated? | Lawbreakers have rights and these should be protected, even whilst they are being punished. Christians believe that inhumane treatment of offenders is wrong. Jesus said prisoners should be treated well. | |
| What are Christian attitudes to different types of crime? | Christians condemn hate crimes and murder as all people are created with equal value and none should get inferior treatment. | |
| What are Christian attitudes to suffering? | Christians should try and help those who are suffering; they should follow the example of Jesus who helped people in need. | |
| Can we blame God for suffering? | Christians believe that God gave humanity the free will to behave as they choose. Teachings of Jesus give guidance to help. | |
| If they cause suffering what should Christians do? | Christians should be honest to themselves; to other people and to God and work hard at repairing any damage they have caused so that relationships can be restored. | |
| When should prison be used? | Most Christians agree that prison should be used as a punishment for serious crimes. | |
| Would a Christian agree with corporal punishment? | Christians do not agree with this, they focus on positive sanctions that help rehabilitate offenders, they believe in following Jesus' example of treating all people with respect. | |

| TECHNICAL VOCABULARY | | |
|----------------------|---|--|
| Crime | An offence which is punishable by law – stealing; murder etc. | |
| Punishment | Something legally done to somebody as a result of being found guilty of breaking the law. | |
| Evil | The opposite of good; a force or the personification of a negative power that is seen as destructive and against God. | |
| Poverty | Being without money, food or other basic needs of life (being poor) | |
| Mental illness | A medical condition that affects a person's feelings, emotions or mood and perhaps their ability to relate to others. | |
| Addiction | Physical or mental dependency on a substance or activity which is very difficult to overcome. | |
| Greed | Wanting to possess wealth, goods or items of value which are not needed. | |
| Retribution | An aim of punishment -to get your own back 'an eye for an eye.' | |
| Deterrence | An aim of punishment- to put people off committing crime. | |
| Reformation | An aim of punishment to change someone's behaviour. | |
| Free will | The ability of people to make decisions for themselves. | |
| Corporal punishment | Punishment of an offender by causing them physical pain – illegal in the UK. | |
| Forgiveness | Showing mercy and pardoning someone for what they have done wrong. | |



| Aims of punishment and the Death Penalty | | |
|---|---|--|
| What is retribution? | This means to get your own back; in the Old Testament this is called lex talionis and means criminals should receive the same injuries and damage they caused their victim. | |
| What is deterrence? | If offenders are seen to be punished for their actions it is hoped that the threat of this will put others off committing crimes. | |
| In the past what punishments were used as deterrents? | Being punished in public – public floggings and executions. | |
| What is reformation? | This is the punishment that most Christians prefer as it seeks to help offenders by working with them to help them understand why their behaviour is harmful. | |
| Should Christians seek revenge? | No Christians should seek and show compassion. | |
| Is there a limit to forgiveness? | No there is no maximum amount of times a person should be forgiven. God's love is infinite so there can be no limit to forgiveness. | |
| What do Christians think about the death penalty? | Some agree with it and use teachings from the Old Testament to support their views: 'Whoever sheds human blood, by humans shall their blood be shed.' Genesis 9:6 and 'Life for life; eye for eye; tooth for tooth.' Exodus 21:23-24. | |
| Why do some Christians oppose the death penalty? | They do not believe that taking another life is right – only God has the right to take life. | |

Year 11 HT1 Child Development: Learning Through Play.

| Physical Play | | |
|--|---|--|
| What do children learn through physical play? | Spatial awareness Activities to stay healthy How to take care of yourself and self-care Gross motor skills Fine motor control | |
| What activities and resources can we use for physical play and learning? | Role play of home life situations Food preparation, snack times and handwashing Bat and ball games Tricycles, bicycles, sit and ride toys Climbing frames, swings, slides Creative activities Playdough, sand and water activities Construction toys Baby gyms, push along toys, rattles. | |



| Cognitive Play | | |
|--|---|--|
| What learning is promoted through cognitive play? | Problem solving skills Creativity Use of imagination Listening and attention skills Numeracy skills Exploration of environments inside and outside Confidence using technology Understanding of others' experiences | |
| What activities and resources can we use for cognitive play? | Counters, weights, play money Shape sorters, puzzles, matching pairs Trips and visits Digging and building Computer games, apps, PCs, tablets Writing Small world toys | |

| Social Play | | |
|-----------------------------------|--|--|
| What learning is promoted | Development of friendships and relationships | |
| through social play? | Emotional support networks | |
| | Sharing, turn taking, compromise. | |
| What activities and resources can | Team games and activities | |
| we use for social play? | Group activities | |
| | Role play | |
| | Board games | |

| TECHNICAL VOCABULARY | |
|-------------------------|--|
| Unoccupied play | Baby makes movements discovering how their body moves. |
| Solitary play | A child plays alone, not interested in playing with others. |
| Spectator/onlooker play | A child watches other children play but doesn't join in with them. |
| Parallel play | A child plays alongside or near others but does not play with them. |
| Associative play | A child starts to interact with others during play but there is not a lot of interaction. |
| Co-operative play | A child fully interacts with others and is interested in the activity and other children, they create their own rules. |
| Locomotor play | Any type of physical activity using gross motor skills- enjoying movement. |
| Creative play | Freedom to explore resources, making something, trying new ideas. |
| Sensory play | Using the senses to explore, discover textures and functions. |
| Imaginative play | Children pretend in some ways, act out their experiences, role play and small world play. |

| Communication and language play | | |
|---|---|--|
| What learning is promoted | Listening skills | |
| through communication and | Process of following instructions | |
| language play? | Vocabulary and literacy skills, speaking and questioning skills Expressing and discussing feelings Having conversations | |
| What activities and resources can we use for communication and language play? | Books – lift the flap, textured, stories, talking books, story sacks. Role play Nursery rhymes, songs, dances Listening/action games. | |

| Emotional Play | |
|-----------------------------------|--|
| What learning is promoted | Expression of feelings |
| through emotional play? | Promoting independence |
| | Improving confidence, esteem and awareness |
| | Building relationships |
| What activities and resources can | Puppets and dolls |
| we use for social play? | Role play activities |
| | Emotion faces |
| | Mirrors |
| | Circle time/carpet time |

Threshold Concept Link(s) Crime and Deviance

| | Who commits crime? W | ny do differences occur? | |
|---|--|--|---|
| Gender | Ethnicity | Class | Age |
| Women committing less crime. Gender socialisation Fewer opportunities More domestic responsibilities May be treated differently in the criminal justice system e.g. sad, rather than bad, given a lenient sentence. Chivalry thesis Others argue they are treated more harshly-double deviancy. Therefore do not commit crime. Women's involvement in crime is increasing: Lost a lot of their controls and restraints Women are not experiencing equality in the work place-gender pay gap. | Inaccurate statistics Labelling-racism and stereotyping within the police practice. More ethnic groups are stopped and searched. Institutional racism within the police-most police officers are white and may label particular groups (Stephen Lawrence murder) Linked to their social class, higher levels of crime in the ethnic minority groups could link to the fact they are also possibly experiencing poverty and this leads to crime. Media reinforcing views- reporting in the media on particular groups can generate mistrust and hostility. | Inaccurate statistics-lower-class criminals may commit crimes that are more identifiable and more likely to be targeted by the police. Socialisation Material deprivation-may commit crime to obtain the things others have Education- W/C more likely to be in the bottom sets/streams so may look for other routes to get what they need e.g. crime. Anomie- mismatch between goals and the means to achieve the goals. Labelling. White collar crime is not as easily identifiable as crimes committed at lower levels. | Status frustration-lack of independence and caught in transition. Lack of responsibilities can lead them to drift into deviant and criminal behaviour. Peer Pressure Edgework-thrill seeking and risk-taking. Getting of "buzz" from committing crime or displaying deviant behaviour. Socialisation-Some young people are inadequately socialised and have learned criminal behaviour as a norm or value. Police stereotyping Media moral panic/folk devil. Subcultural theory |

| TECHNICAL VOCABULARY | | |
|----------------------------|--|--|
| Crime | Behaviour that breaks the law. | |
| Deviance | Behaviour that does not conform to the dominant norms of a specific society | |
| Socially defined behaviour | Thought of as natural but is actually the product of cultural expectations. | |
| Official Crime statistics | The way crime is officially measured, based on statistics collected by the Home office. | |
| Victim surveys | Surveys of the public which ask them to report any crimes they have experienced, whether or not they have reported them. | |
| Self –report surveys | Surveys of the population which ask them to confess to crime they have committed. But for which they have not been caught. | |
| Reported crime | Crime is reported to the police. Not all crime is reported | |
| Recorded crime | Crime that is recorded by the police. Not all reported crime is recorded. | |
| Validity | Data is valid if it gives a true picture of what is being studied. | |
| Dark figure of crime | A large amount of criminal activity never appears in the crime statistics. | |
| British Crime Survey | BCS: A victim survey conducted annually by a team of researchers at the home office. The BCS measures the amount of crime in England and Wales by asking people about crimes | |
| Social constructed | Views of what is criminal or deviant behaviour are influenced by the values and norms of the society we live in. | |
| Peer group pressure | A group of a person's won age who are important to them and often influence them to behave in a particular way. | |

Houses of Parliament The police force Judiciary Formal Social The prison service. Control: Based on written rules and Social Control: laws. Much of our behaviour is socially Refusing the class deal: Not controlled. found legitimate ways of Informal Social Control: earning a decent living. More Based on unwritten to gain than to lose by rules and processes offending. such as approval & disapproval Agencies of informal social control: Family members Peers Teachers Work colleagues

Agencies of formal social control:

The class deal & the gender deal.

- Most people conform to the rules because of the 'deals' that offer them rewards.
- Class Deal: Material rewards if you work for your wage
- **Gender deal:** Material & emotional rewards if you live with a male breadwinner within the family.

Refusing the gender deal:

Supposed to be rewarded with happiness & fulfilment from family life. Many women may be abused, no bonds with family & friends. Nothing to lose and everything to gain.





Those at high risk from crime:

Class: The poor, living in private rented housing

Gender: Males

Age: The Young

Ethnicity: Minority ethnic groups.



Debate: The media:

- Are the media biased in their presentation of crime?
- Does the media create crime in society?

Are the media biased in their presentation of crime?

- When individuals do not have direct knowledge or experience of what is happening, they rely on the media to inform them.
 The media set the agenda in terms of what is considered to be important.
- The editors filter what they see as newsworthy (news value) they tend to include and emphasis elements of a story for their audience. Stories they are more likely to report (news value) are stories involving children, violence, celebrities, if the event has occurred locally, easy to understand and if graphic images are involved.
- 46% of media reports are about violence or sexual crimes, yet these only make up for 3% of crime recorded by the police (Ditton & Delphy 1983)
- Deviancy amplification is usually used to describe the impact of the media on the public perception of crime.

2. Does the media create crime?

- Media content can have a negative impact on the behaviour of young people, particularly children.
- It is suggested that some people may imitate violence and immoral or antisocial behaviour seen in media. The media are regarded as a powerful secondary agent of socialisation.
- Video games are often blamed as a link between increased aggressive behaviour and crime.



| Crime Key Stud | Crime Key Studies | |
|---|--|--|
| Study | Findings | |
| Merton's (1938) strain theory Functionalist | People's aspirations and goals are shaped by their culture eg American Dream = economic success Some people experience a strain between the goals of society and the means of achieving them. This may lead to anomie (normlessness) They may seek out an illegitimate route to economic success eg crime | |
| Becker's (1963) interactionist perspective interactionist | Argues deviance is created by society Powerful social groups create deviance by making the rules and applying these to others People can develop deviant careers if labelled as deviant The deviant label can become a master status (main identity) Labelling can lead to the self-fulfilling prophecy | |
| Heidensohn' s (1985) control theory Feminist | Women commit less crime because they are more closely controlled in society In a patriarchal society, women have stronger social control placed on them which can reduce opportunities for crime At home, women are controlled by domestic responsibilities, at work by fear of damaging reputation and in public by fear of male violence | |
| Carlen's (1988) class and gender deal Feminist | Carlen explains why working-class women commit crime She argues they are promised two rewards for conforming- 'class deal' (money and material items from working hard) and 'gender deal' (happy domestic life with husband and children) She found WC women committed crime when these rewards were blocked due to: poverty, living in care, drug addiction. They had nothing to lose and everything to gain | |
| Cohen's (1955) subcultural theory Functionalist | Argues delinquency is carried out by groups not individuals, and that groups often commit non-utilitarian (not motivated by money) crimes Working class boys experience status frustration at not succeeding in middle class school They join/ form a delinquent subculture with an alternative status hierarchy where they will gain status for deviance | |

| Key term | Definition |
|-------------------------------------|---|
| Crime | Any form of behaviour that breaks the law |
| Custodial sentences | Punishment where offenders will sentenced to go to prison or Young offenders institute |
| Crime rate | A measure of the level of criminal activity in a society based on crimes recorded by the police |
| Dark figure of crime | The unknown amount of criminal activity that is not reported or recorded to the police |
| Deviance | Any form of behaviour that does not conform to the norms of a society – this can be influenced by time, place, social situation and culture |
| Formal agencies of social control | Formal rules and social controls that tell everyone within society what is and is not acceptable e.g. the police, the courts, the government |
| Informal agencies of social control | The approval or disapproval of people around us that can influence and control our behaviour e.g. family, friends, peer group, schools, work, religion |
| Official crime statistics | Government statistics on crime based on official sources e.g. police records |
| Self-report study | A survey that asks respondents to identify crimes they have committed, but for which they have not been caught |
| Social construction of crime | What is considered criminal and deviant changes over time or when it takes place, therefore is socially constructed. No act is in itself criminal or deviant- it largely depends on how other member of society see it e.g. homosexuality |
| Victim survey | A survey that asks respondents about their experience of crime, regardless of whether or not those crimes have reported |
| Collective conscience | The shared beliefs that bind communities together and regulate individual behaviour |
| Deviant career | Deviant behaviour that develops over time due to labels. e.g. labelled a troublemaker at school and then goes onto commit crime later in life |
| Deviancy amplification | The exaggeration of a particular social issue as a consequence of media coverage, e.g. anti-social behaviour by groups of young people |







A business considers how the marketing mix manages each element, how it is used to make decisions and how it

gives a competitive advantage in the market.

2.2 Making Marketing Decisions - Part One

Product

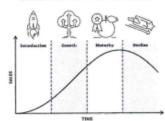
The first part of the marketing mix is the product. This is what a business sells. It can be a physical, tangible item such as furniture, or it could be a service such as cleaning and valeting a car. The key to success is ensuring customers get value for money. A furniture shop should make sure their furniture is good quality, fashionable, long-lasting and comes with a guarantee. The car cleaning service should ensure there are no scratches on the paintwork of the car.

Function

- How well does a product do its job? Some functions are easy, others are more complex. A pen, for example, is straightforward. Does it allow you to write properly? A dishwasher is quite complex; does it clean crockery properly, are there different settings?
- How easy is a product to use? There is no point having an item that is too complicated to use, e.g. a coffee machine. People might just start using instant coffee instead.
- How good is the service a business is offering? Is it fast, efficient and convenient? If not, customers might go elsewhere.
- Improving the functionality of a product can give a business a competitive advantage and stop customers going elsewhere.

When producing a product, a business must think carefully about functionality, aesthetics and cost. Which is more important? If it improves one part of the design mix, would it impact another part? If a product works very efficiently but is too expensive, will it reduce sales? If a product is extremely attractive but doesn't do its job properly, will people buy it? Is it better to use cheaper materials to make a mediocre product that people can afford, or is it better to use dearer materials that will make a more desirable product that only a few people can afford?

PRODUCT LIFE CYCLE



The design mix

Aesthetics

- · Aesthetics refers to the way a product looks or feels.
- As well as being functional, a product must attract customers by being appealing or good to look at. However, this is not so important with some products such as medical dressings or painkillers. For these items, functionality is more important than what the packaging looks like.
- With items such as clothes and shoes, aesthetics is extremely important.



The four phases of the product life cycle

- ♦ Introduction
- ♦ Growth
- Maturity
- Decline

Sales start off low in the introduction stage. They increase in the growth stage then slow down in the maturity stage. In the decline stage, sales start to fall.

The product life cycle

A business can decide its pricing, promotion, production levels and its other products by using the product life cycle, which consists of four stages.

Extension strategies What can a business do to extend the life of a product?

- ♦ Lower prices
- Increase advertising
 Rebrand the product
- Introduce variations on a product

Cost

- Cost is just as important as functionality and aesthetics. If a customer can't afford to buy a product, the business does not generate any sales and therefore does not make a profit.
- A business can make a product cheaply, with low costs, but might cut back on functionality and aesthetics, which may limit the number of sales.
- Cheap raw materials can make a product quite unattractive. For example, a pair of glasses with high prescription lenses can be produced quite cheaply if the lenses are not thinned. However, they would be undesirable to the wearer as the lenses would be too thick.

Technology

For example:

The amount customers will pay is

customers find the cheapest

purchases, such as extra lives

· Apps showing the demand for

a product; for example, the

price of flights can change a

for a particular journey.

lot depending on the demand

influenced by technology.

Comparison websites help

products on the market.

Computer games are often

free but have add-on

and bonuses, which

generate income.

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Price

The price of a product is what a customer is willing to pay for it. Products that seem the same can be sold for different prices; for example, a cup of tea in a takeaway carton will be much cheaper than the same cup of tea sold at a 5-star hotel in a china teacup.

A business sets its selling prices by using pricing strategies. The strategy will depend on factors such as brand loyalty, popularity of the product with customers, how many items they have to sell, and the profit margin of the product. The two main pricing strategies are:

High-volume pricing strategy

This is where a lot of items are produced and sold for a low price.

Pricing strategies

High-margin pricing strategy

This is where a small number of items are produced and sold at a high price. A business can add value to a product and thus justify a higher price; for example, a designer handbag such as Radley or Gucci has far more value than a cheaper non-designer version.

Influences on pricing strategies Customers will pay a higher price for products that have added value. For example, a customer will pay more for a haircut in a salon where they are given a hot drink and magazines than a salon that provides no frills. Customers will also pay more for convenience, speed, reliability and a well-known brand name.

Competition

- Competitors can influence a business to lower its prices to encourage more customers.
- If there are few competitors around, a business might keep its prices high as it doesn't need to worry about the number of customers.
- A business might set a price of a product lower than its actual cost. This is called a loss leader and is done to entice customers into a shop so that they buy other products in the shop.

Market segments

 Some businesses sell products at different prices depending on the type of customer; for example, theatre tickets are sold at different prices to families, pensioners, students and for group bookings.

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- Mass-market products, e.g. chocolate bars, are generally sold at a similar price as they are aimed at a large market where customers have a wide range of similar products.
- A business might sell a product at a high price to a niche market. This is a specialised market with only a few customers who are interested in a particular product; for example, racing cars. Customers are
- prepared to pay a high price for an unusual product.
 A business might sell a new product at a high price.
 When colour televisions were first introduced in the 1950s, very few customers had one, and customers were willing to pay a high price to be one of the first people to have one.

Product life cycle

- When a product starts its journey in the introduction stage, it will be priced low to encourage customers to buy it.
- As the product reaches the growth stage, the price will start to increase.
- In the maturity stage, the price will be more static.
- In the decline stage, the popularity of the product will fall though the price may not change.
- One extension strategy may be to lower the price of the product to encourage sales.

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2.2 Making Marketing Decisions - Part Two

Promotion

Promotion is the way a business tells its customers about its products and is usually done through advertising, often through posters, leaflets, television or radio. More recently, social media, the Internet and smartphone apps have changed the way businesses promote their products.

Advertising

A business will communicate with its customers through adverts. The more attractive, eye-catching, colourful and funny they are, the better. Adverts vary massively in price. Prime-time TV adverts (e.g. adverts during a World Cup football match) will be extremely expensive.

A business often uses an expert to do their advertising. If they get their advertising right, it should pay off as it will increase their sales.

Many different methods of advertising are used depending on the target market:

- Television, e.g. online channels such as QVC, national and local TV
- A Radio, e.g. local, national
- Digital, e.g. social media, texts, apps

The use of

- Print, e.g. newspapers, brochures
- · Roadside/outdoor, e.g. leaflets, billboards

technology in promotion Viral advertising via social media

Technology has had a huge impact on promotion and advertising. Businesses can now communicate two-way with consumers and receive feedback on their products. It also enables advertising to be more global as it is far easier to communicate across the world, thus increasing customers.

Using the marketing mix to make business decisions

Sponsorship

A business will fund an event, an activity or a person by giving them free products or money to support them.

This is very obvious when watching a football match as the sponsoring organisations have their brand name on the players' shirts and around the stadium.

Special offers

These are used to entice customers to buy products that they don't usually buy and encourage them to become regular customers. It is

Common offers include BOGOF (buy one, get one free), percentage sale discount (e.g. 25% off) or email subscriptions (where customers receive a discount by signing up to a newsletter).

Branding

Branding is used to identify a particular product by giving it a special name, logo, symbol or unique feature.

A product with a strong brand will attract customer loyalty and increase sales.

E-newsletters

A business might use an e-newsletter to communicate with its customers and give up-todate information about its products. By sending e-newsletters by email, a business can send customers links to products which could encourage e-commerce (online shopping) and mcommerce (online shopping via mobile phones).

an effective way of getting rid of old or surplus stock.

Advantages

 ✓ Customers can view products before buying, which is useful for products such as musical instruments.

Retailers

Retailing is when a customer buys a

product from a shop or a warehouse.

Products can be delivered from a

visit to buy their products.

manufacturer to a warehouse and

then to a shop which customers will

- ✓ Customers receive face-to-face support. ✓ Customers can try on a product to make sure it fits. This is particularly useful with clothes
- Some products have to have a physical location,
- e.g. a fairground or a restaurant.
- Businesses that offer services can add value by having a convenient location with parking or be near public transport.

Disadvantages

* Rent and mortgage repayments are expensive which means the selling price might increase or the profit margin of products might decrease.

each element, how it is used to make decisions and how it gives a competitive advantage in the market.

A business considers how the marketing mix manages

Methods of

distribution

Place

Place is how customers receive their products from a business. Products can be collected by customers or delivered by the business. The place where a product is sold can add value to a product; for example, staying in a hotel in a popular tourist location. A business has to decide whether to sell online or provide a physical location where customers can view a product, or a mixture of the two (retailers vs e-tailers).

E-tailers (e-commerce)

E-tailing is the selling of products to customers via a website. Customers could either use the Internet (e-commerce) to access the website, or use an app on their mobile phone (m-commerce), e.g. Amazon.

Advantages

- ✓ No need to rent or buy premises, thus saving costs.
- Able to sell globally to increase the market share.
- Easier to set up as there are no premises to buy
- ✓ New markets are able to grow, such as subscription boxes. This market has grown rapidly and sells products such as food and chocolates to subscribers, e.g. HelloFresh.

Disadvantages

- × People are wary of fake websites. * People want to try products before they buy.
- * A business would have to spend a lot of money on digital marketing to generate sufficient customers.
- Businesses have large delivery costs and have to decide whether to pass on these high costs to the customers or reduce their profit margin.

How each element of the marketing mix can influence other elements

Targeted advertising online

Technology enables a business to

websites to advertise effectively.

use sidebar adverts and banners on

Businesses use different methods to

target their customers depending on

A business will offer a free sample to a

then write a review on it. It can be an

customer so they can try their product and

expensive promotional method but effective.

For example, Saw, an escape room challenge

chance to try their escape rooms in exchange

in London, offered potential customers the

for a 45-minute survey to be completed by

Product trials

the participants.

Advertising can go viral when social media users

increase sales or increase brand awareness and

creates no extra costs for the business.

share posts, messages, videos or images. This can

which market segment they belong to.

Appropriate promotion

strategies for different

market segments

- · Each element of the marketing mix has an influence on the other elements.
- The price is affected by the product and its design mix, how it is promoted and where it is sold from.
- Promotion of the product is affected by how it is sold, e.g. online or from a physical location.
- The type of product affects the place it is sold from. If it is sold via the Internet, it must be possible to package it well. If it is a product that needs testing before purchase, the business will need to consider the 'place' carefully.

Using the marketing mix to build competitive advantage One element of the marketing mix can have a bigger influence than the others. For example, a beach restaurant could be very successful

due to its location. It might not advertise much, it might have high prices and the food might not be that amazing. However, its 'place' gives it a competitive advantage over other restaurants that are a distance away from the beach.



How an integrated marketing mix can influence competitive advantage

A business should aim to have one part of the marketing mix as a competitive advantage. It could be:

- the product (better than any other product)
- the place (more convenient than anywhere else)
- promotion (more advertising than any other business)
- the price (better value than anywhere else)

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Working with suppliers

2.3 Making Operational Decisions - Part One



A business needs a good supplier it can rely on. Otherwise, this could lead to:

· Goods arriving late, which will lead to deadlines not being met

Poor quality of raw materials, which will lead to poor-quality products being made

Poor reputation with customers, which will lead to lack of revenue and low profits

A business operates to meet the needs of its customers by the design, supply and quality of its products and services and by managing the sales process.

Business operations

To produce goods

Goods are tangible items that are sold by a business. (Tangible means you can touch the items.) Examples include cars, food, clothes and computers.



The purpose of business operations

Services are usually intangible (can't be

performed by a worker for a customer.

touched) and are activities that are

Examples include a haircut, a car

service, a dental check-up.

To produce services

Business operations enable businesses to manufacture, sell and deliver their products to their customers. Labour (employees), materials (raw materials) and capital (money) are needed to do this.

Flow

Products are produced on mass on a large scale. Typical items produced this way include computers, smartphones and tinned food.

·----,

Advantages

- · As a lot of products are made at the same time, a business can benefit from economies of scale as items are mass produced.
- A business can be more competitive as it can reduce
- Production systems are more automated which means only low-skilled staff are needed which will reduce employee costs.

Disadvantages

- The machinery needed initially can be costly.
- Products can be too standardised, not allowing for any flexibility.

The use of just-in-time (JIT) stock

Expensive goods or raw materials, which will lead to an increase in the selling price of products

A business might order stock only when it

- amount of raw materials from the suppliers, makes the products that day, the next day.
- · For JIT stock control to work, the business has to be very organised. The suppliers have to be very reliable but it cuts down on storage costs for the business.
- However, if the raw materials are not delivered on time, it stops production, which leads to poor customer satisfaction,

Managing stock

A business's stock is either the raw materials / ingredients needed to make a product, or the finished product. If a business holds a lot of stock it won't run out. However, this can be expensive as it needs to be stored, which can be expensive. Stock can be perishable and go out of date; the most obvious example being food. The two main ways by which a business can control its stock are bar gate stock graphs and just-in-time stock control.

Job production makes one product at a time. Each item is different, e.g. bespoke furniture which is made specifically to the customer's needs. The employees are highly skilled and automation is low. The rate of production is slow; the cost of production is high

Advantages

· Each product will match the customer needs specifically so there should be high customer satisfaction.

Disadvantages

- Highly skilled workers are hard to find and are expensive.
- Products are very expensive so the business may not make many sales.

Batch

Products are produced in batches which means that several products are made at the same time. Once the batch has been produced, the business can alter the product before it produces its next batch.

Advantages

- As several products can be made at the same time, it will
- It allows alterations to be made at the end of each batch which will allow for variation or the elimination of errors.

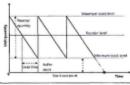
There can be wasted time between the production of batches. This can lead to lower sales and falling profit. needs it. This is known as just-in-time stock control and is often used in the car industry. Parts for the car arrive at the factory just as they are needed; for example, the bonnet for the car arrives just as it is due to be fitted.

- A business decides how many products it wants to make in a day, orders the correct and then reorders more raw materials for
- less repeat business and lower profits.

Interpretation of bar gate stock graphs

A bar gate stock graph shows how much stock a business is holding. It helps a business make decisions about how much stock to have available, when to order more stock and how much stock it needs. This type of graph shows the:

- time period
- · maximum stock level (the business may not be able to stock
- · reorder level (the business needs to order new stock in time otherwise it might run out if the delivery times are long)
- minimum stock level (the business does not want to run out of stock)
- · lead time (the amount of time between new stock being ordered and being delivered)



Production process

The impact of different types of production processes

Many businesses use all three methods of production when making their products. For example, when making a wedding cake, batch production might be used to make the cake. while job production could be used to decorate the cake. This can also apply to services such as hairdressing - one member of staff might wash several people's hair while different trained specialists might be used for techniques such as colouring or highlights.

Flexibility

Technology can help a business to be more flexible by automatically updating quantities of products or changing colours, size or material more easily than by hand.

Quality

Technology can improve quality of products as items are more standard and less subject to human error. It can also improve customer service as systems are automated and communication can be more efficient.

Relationships with suppliers

A business needs a good relationship with its suppliers to be as successful as possible. The following are important:

Quality: Quality is vital when choosing a supplier. If goods are faulty, it will lead to a bad reputation and poor sales. It will also increase the number of returned products, which increases costs.

Delivery: Cheap delivery is not necessarily the best, as goods might be damaged in transit if delivery companies cut costs, or they may be late. It might be best to pay more for a reliable,

Availability: Availability is very important because if a supplier

materials are cheap, the quality may be poor, deadlines may not

Trust: Trust between a supplier and a business is important. A business wants to know it is getting good-quality goods that are available at a reasonable price, while a supplier needs to know they will get paid on time. Some suppliers will draw up a contract between themselves and a business which creates a strong working relationship.

has no goods to sell, a business cannot function or meet its customers' needs.

Cost: The cheaper the better is not always the case. If raw be met or deliveries might be late.

The impact of logistics and supply decisions

The role of

procurement

Logistics is another name for transporting and delivering goods which need to be transported from the supplier to the business and then delivered to the customer. It has three main impacts:

Costs: If logistics are well organised, it can reduce costs. For example, if all the deliveries in the North West of England are scheduled for a Monday, and all the deliveries in the South East are scheduled for a Friday, it could save a lot of time, fuel and wages, rather than deliveries taking place at any time of the week to anywhere.

Reputation: Poor logistics can give a business a bad reputation. If deliveries go smoothly, the business will get a good name for itself.

Customer satisfaction: Low costs and a high reputation will give excellent customer satisfaction which encourages repeat business and increases profits.

Impacts of technology on production

Balancing cost

Technology such as computer-aided manufacturing (CAM) can help a business reduce costs by making mass-produced items such as cars.

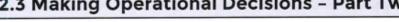
Productivity

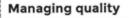
Technology can help a business become more productive with the introduction of a supply chain management system (SCM) which helps manage deliveries to customers. It also uses barcode systems to manage stock levels and prevent running out of products.

A business operates to meet the needs of its customers

by the design, supply and quality of its products and services and by managing the sales process.

2.3 Making Operational Decisions - Part Two







The concept of quality and its importance

The production of goods and the provision of services

Quality control

- · Quality control is when a product is checked at the end of the production process when it has been made.
- The standard and the safety of the product are checked.
- A service can also be checked by giving customers questionnaires to complete, by using mystery shoppers or by offering customers the chance of entering a prize draw if they give feedback.
- Quality control does not fix a faulty product. It can only withdraw it from the production line.
- Quality control assesses the final product.

Quality assurance

- · Quality assurance is when a product is checked at each stage of the production process.
- Any products that have faults are taken off the production line.
- · As products are checked throughout the process while they are being made, quality control at the end of the process is not so important.
- However, quality assurance can be expensive which could increase the selling price of the product.
- Quality assurance assesses the process.

Quality marks

Some products or services can attract quality marks if the quality assurance process meets national standards. The business can then use the quality mark logo to show potential customers their products or service are of a certain standard. Examples of quality marks include:

- ❖ Kitemark a safety award given to products that meet a certain safety standard
- Investors in People an award given to businesses who train and manage their staff to a certain standard
- CE marking an award given to products that meet a European standard of health, safety and environmental protection legislation
- ISO 9001 sets an international standard for a quality management system

Quality is the standard of goods or services expected by a customer. This can be measured by how long a product lasts, how good the ingredients are or how well a product is made or how successful a service is. The quality required by a customer varies depending on their expectations. Some customers would be delighted with a second-hand Fiesta while others would only be satisfied with a new Ferrari! Quality is extremely important as it determines whether or not a customer will buy a product/service.

Quality of a product can be judged by:

- its brand name (e.g. Porsche)
- its price (it's expensive therefore it must be good!)
- its ability to do its job (a dishwasher washes the pots so therefore it's good quality)

Allowing a business to control costs and gain a competitive advantage

Quality is important as good-quality products can give a business a competitive advantage. This increases customers, repeat business and sales revenue, thus leading to more profit.

- Quality can also help a business control costs.
- It is not always cost-effective to buy cheap raw materials as the finished product might be of poor quality. This can cause it to break which will increase the number of sales returns sent back to the business. This will have a negative effect on the business's reputation and revenue.
- It might encourage a business to change suppliers so it can keep its customers satisfied.

there be a long wait?

go back to the shop

will not want to use a business

♦ Honesty – can the shop be trusted?

not want to buy

and enquiries

A business must provide excellent customer service if it wants to

Speed of delivery – will a product be delivered on time or will

· Efficiency - if a product is broken, customers will not want to

Reasonable selling price – if a price is too high, customers will

Good after-sales service – if there is no aftercare, customers

♦ Meets legal standards – has all safety legislation been met?

interested in a business that will not respond to questions

◆ Excellent communication throughout – customers are not

Accuracy of product – does it do what it says it does?

❖ Friendliness of staff – grumpy staff can stop a customer

retain customers and keep a good reputation. Customers are interested in the following criteria:

Product knowledge

An employee with excellent product knowledge is more likely to secure a sale than an employee who knows nothing about a product. When buying a large item such as a new kitchen, the salesperson must know what they are talking about to show

competency and gain the trust of the customer.

Customer engagement

Skilled employees are vital to a business when selling products or providing services that need a lot of interaction with a customer. Buying a loaf of bread doesn't take long but when buying a product such as a car, a lot of rapport needs to be built up between the customer and the employee to guarantee a sale and provide excellent after-sales service.

Speed and efficiency of service

The quicker and more efficient the service from a business, the more customers will be satisfied. This will cause them to become repeat customers and will encourage them to recommend the business by word of mouth to other potential customers, thus causing sales to increase and profits to rise.

Responses to customer feedback

A business needs to respond to customer feedback to improve its product or service. It should find out from the customer what improvements can be made and should put these in place. Suggestions from customers can be found using questionnaires and suggestion boxes. Also, a business could give out free samples to potential customers to gather feedback.

The sales

process

Post-sales service

A business needs to provide customers with an after-sales

service. This can involve supporting a customer while getting used to a new product or replacing a broken part. It can be expensive to do this, but it gives the business an excellent reputation. The business will benefit from positive word-of-mouth recommendations from the customer to friends and relatives.

The importance to businesses of providing good customer service

FOCUS GROUP

Qualitative methods to assess customer service

- Questionnaires
- Mystery shoppers
- Focus groups

Quantitative methods to assess customer service

- Sales figures for each employee
- Number of enquiries dealt with



| A1: Examples of Fitness Tests | | |
|-------------------------------|----------------------------------|--|
| Aerobic endurance | Multistage Fitness Test | |
| | Yo-Yo Test | |
| | Harvard Step Test | |
| | 12 Minute Cooper Run | |
| Muscular endurance | One-minute Sit-Up Test | |
| | One-minute Press-Up Test | |
| | Timed Plank Test | |
| Muscular strength | Grip Dynamometer | |
| | One Rep Max Test | |
| Speed | 30m Sprint Test | |
| Flexibility | Sit and Reach Test | |
| | Shoulder Flexibility Test | |
| Body composition | Body Mass Index | |
| | Bioelectrical Impedance Analysis | |
| | Waist to Hip Ratio | |
| Power | Vertical Jump Test | |
| | Standing Broad Jump | |
| Agility | Illinois Agility Test | |
| | T-Test | |
| Reaction time | Ruler Drop Test | |
| Balance | Standing Stork Test | |
| | Y Balance Test | |
| Coordination | Wall Toss Test | |
| | Stick Flip Test | |

Pre Test Procedures

Calibrate Equipment

Adjusting equipment to make sure it will measure the test accurately.

Informed Consent

Participants need to know what they are signing up for and consent to taking part.

They can withdraw their consent at any time.

Complete a PAR-Q

This is a questionnaire that participants must complete before a test listing what health conditions they may have.

Pre-fitness Check

Participants also must inform you about their overall fitness levels and experience to ensure they can safely participate.