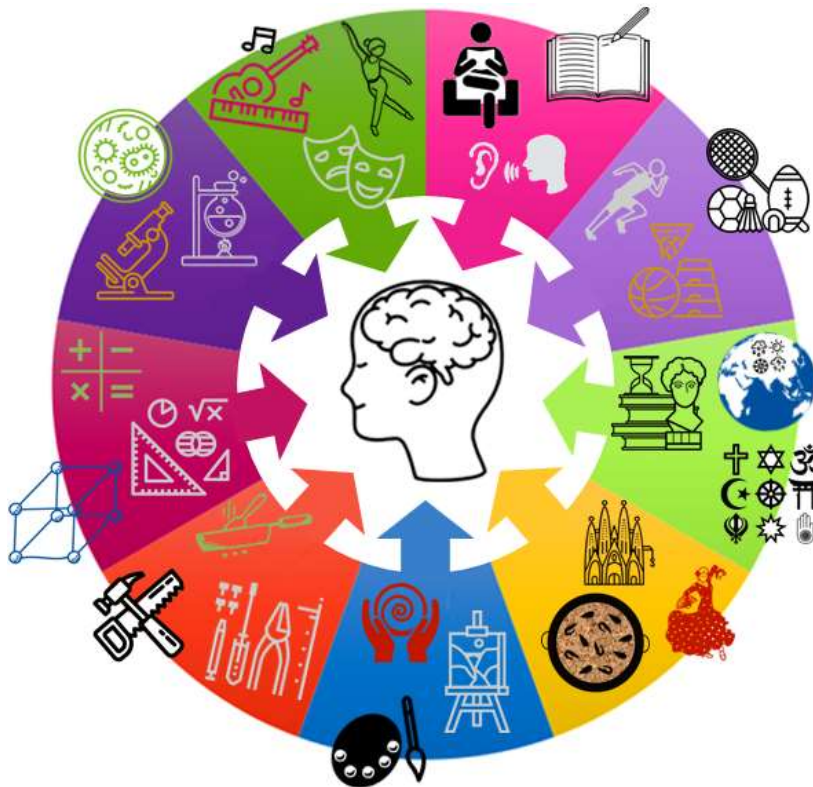


100% book –Grammar Stream

Aim to memorise 100% of the knowledge on these Knowledge Organisers.

Term 6



Swindon Academy 2023-24

Name:

Tutor Group:

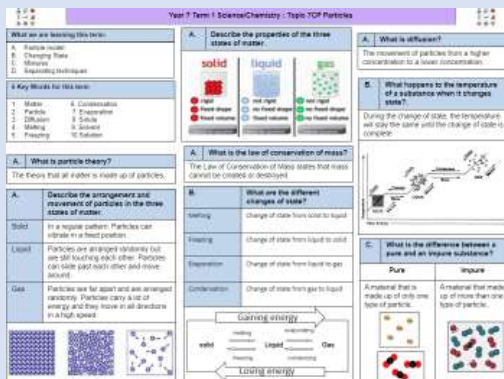
Tutor & Room:

"If you are not willing to learn, no one can help you.

If you are determined to learn, no one can stop you."

How to use your 100% book of Knowledge Organisers and Quizzable Organisers

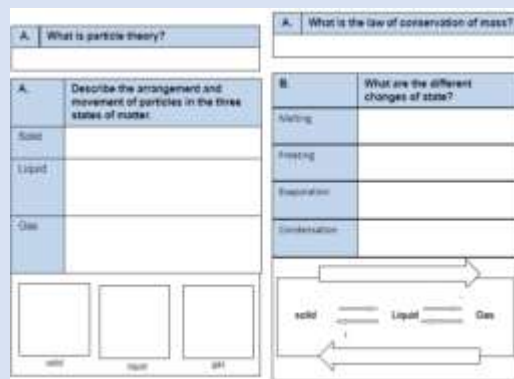
Knowledge Organisers



Knowledge Organisers contain the essential knowledge that you **MUST** know in order to be successful this year and in all subsequent years.

They will help you learn, revise and retain what you have learnt in lessons in order to move the knowledge from your short-term memory to long-term memory.

Quizzable Knowledge Organisers



These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get someone else to test you, until you are confident you can recall the information from memory.

Top Tip

Don't write on your Quizzable Knowledge Organisers! Quiz yourself by writing the missing words in your prep book. That way you can quiz yourself again and again!

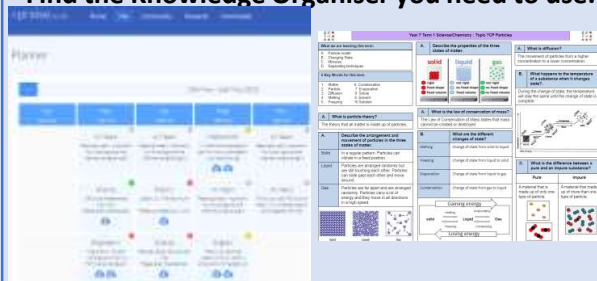
Expectations for Prep and for using your Knowledge Organisers

1. Complete all prep work set in your subject prep book.
2. Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
3. Take pride in your prep book – keep it neat and tidy.
4. Present work in your prep book to the same standard you are expected to do in class.
5. Ensure that your use of SPAG is accurate.
6. Write in blue or black pen and sketch in pencil.
7. Ensure every piece of work has a title and date.
8. Use a ruler for straight lines.
9. If you are unsure about the prep, speak to your teacher.
10. Review your prep work in green pen using the mark scheme.

How do I complete Knowledge Organiser Prep?

Step 1

Check Epraise and identify what words /definitions/facts you have been asked to learn.
Find the Knowledge Organiser you need to use.



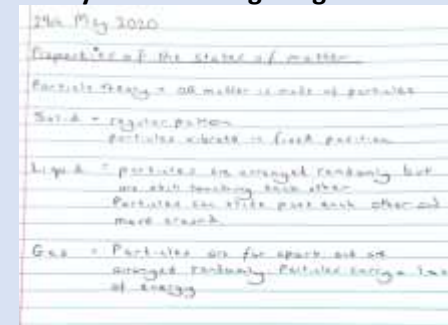
Step 2

Write today's date and the title from your Knowledge Organiser in your Prep Book.



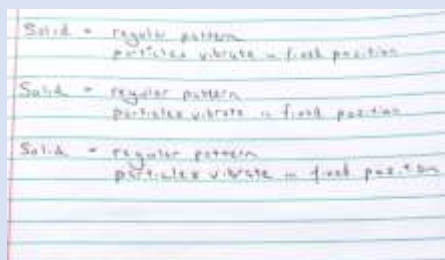
Step 3

Write out the keywords/definitions/facts from your Knowledge Organiser in FULL.



Step 4

Read the keywords/definitions/facts out loud to yourself again and again and write the keywords/definitions/facts at least 3 times.



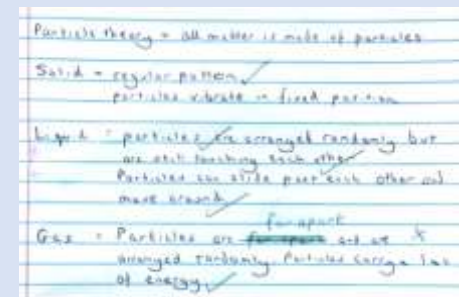
Step 5

Open your quizzable Knowledge Organiser.
Write the missing words from your quizzable Knowledge organiser in your prep book.



Step 6

Check your answers using your Knowledge Organiser. Repeat Steps 3 to 5 with any questions you got wrong until you are confident.



Make sure you bring in your completed Prep notes to demonstrate that you have completed your prep.

| 1. Context | | |
|--|--|---|
| <p>Playwright: Shakespeare (April 23rd 1564-April 23rd1616)</p> <p>Dates: written around 1606</p> <p>Published: in ‘the First Folio, 1623</p> <p>Era: Jacobean</p> <p>Genre: Tragedy = <i>A play ending with the suffering and death of the main character.</i></p> <p>Set: Scotland,</p> <p>Structure: Five Act Play</p> | | |
| <p>Macbeth. The plot is partly based on fact. Macbeth was a real 11th Century king who reigned Scotland from 1040-1057. Shakespeare’s version of the story originates from the Chronicles of Holinshed (a well known historian). The play was most likely written in 1606 – the year after the Gunpowder Plot of 1605 – and reflects the insecurities of Jacobean politics.</p> | | |
| <p>The Divine Right of Kings says that a monarch is not subject to earthly authority and that they have the right to rule directly from the will of God. It implies that only God can judge an unjust king and that any attempt to depose, dethrone or restrict his powers runs contrary to the will of God and may constitute a sacrilegious act. The action of killing a king is called regicide and is considered a terrible crime.</p> | | |
| <p>King James I of England (and VI of Scotland) came to the throne in 1603 following the death of Queen Elizabeth I. The play pays homage to the king’s Scottish lineage. The witches’ prophecy that Banquo will found a line of kings is a clear nod to James’ family’s claim to have descended from the historical Banquo. James was convinced about the reality of witchcraft and its great danger to him leading to witch trials. The play is probably not written simply to please James, but certainly looks at relevant ideas.</p> | | |
| <p>Shakespearean Tragedy. Macbeth is one of Shakespeare’s tragedies and follows specific conventions. The climax must end in a tremendous catastrophe involving the death of the main character; the character’s death is caused by their own flaw(s) (hamartia) yet the character has something the audience can identify with.</p> | | |
| <p>The Great Chain of Being was a belief in a strict religious hierarchy (see key vocabulary) of all things which was believed to have been decreed by God. This idea was important in Elizabethan and Jacobean beliefs. The chain starts from God and progresses downward to angels, demons (fallen/renege angels), stars, moon, kings, princes, nobles, commoners, wild animals, domesticated animals, trees, other plants, precious stones, precious metals, and other minerals.</p> | | |
| Conventions of a Shakespearean Tragedy | | |
| A tragic hero who falls from greatness through a flaw of their own character. | Hamartia – the flaw in the tragic hero that destroys them. | A hero of status – the central characters are people of importance, with power and status to lose. |
| External conflict – his tragedies feature conflict between characters, and always lead to death. | Internal conflict – there are frequent moments of self-doubt or internal torment. | Supernatural elements – Many of Shakespeare’s tragedies feature supernatural influences. |

KS4 MACBETH Grammar

| 2. Key Characters | |
|---|---|
| <p>Macbeth: The eponymous protagonist is the tragic hero of this play. He is both ambitious and ruthless. He falls from loyal and respected warrior to a paranoid, tyrannical king, before dying in battle in Act V.</p> | |
| <p>Lady Macbeth: A strong, ambitious and manipulative woman who exerts pressure on Macbeth to pursue his ambition of becoming king by murdering Duncan. Unable to deal with the guilt of these actions and is driven to madness and suicide.</p> | |
| <p>The Witches / Weird Sisters: Supernatural and manipulative beings who seem to be able to predict the future. They are unearthly and omniscient.</p> | |
| <p>Banquo: Macbeth’s close friend and ally is astute and loyal. Macbeth sees him as a threat. He is virtuous, admired by audiences, and mistrustful of the supernatural witches.</p> | |
| <p>Duncan: King of Scotland at the beginning of the play. He is a virtuous, strong and respected leader, held up as the model of good kingship by others in the play. He is murdered by Macbeth in Act 2.</p> | |
| <p>Macduff: A soldier who is loyal to Duncan and is suspicious of Macbeth. His family is murdered by Macbeth’s soldiers and he eventually exacts revenge by killing Macbeth. He was born by caesarian section and therefore was “not of woman born”.</p> | |
| <p>Malcolm: Duncan’s son and next in line to the throne. He is described as a good man in the play.</p> | |
| 3. Central Themes | |
| Ambition | The play is about the corrupting power of ambition. Both Lady Macbeth and Macbeth are urged to action by the prophecies of the witches, but they still commit their crimes themselves because they want greater power. Their ambition leads them to violence and death. |
| Kingship and Tyranny | The play contrasts the kind and wise rule of Duncan, who is described as a virtuous (good) king, with the brutal rule of Macbeth, who quickly becomes called a tyrant. The play shows how Macbeth has no divine right to rule and upsets the natural order by killing Duncan. |
| Order and Disorder | The play subverts the natural order of the world. Macbeth’s actions are based on a supernatural belief in a prophecy. It depicts an anarchic world: Macbeth inverts the order of royal succession; his wife inverts the patriarchal hierarchy; the unnatural world disrupts the natural. The disruption underpins the conflict that is not only external and violent but internal as Macbeth and his wife come to terms with what they’ve done. |
| Appearance and Reality | Characters in the play are often not what they seem. Lady Macbeth and Macbeth are duplicitous towards Duncan, the witches equivocate (not say what they really mean) and cannot be trusted, Lady Macbeth seeks to manipulate Macbeth. |

| 4. Key Vocabulary | |
|---------------------|---|
| Ambition | A desire to achieve something e.g. Macbeth and kingship |
| Hubris | Having excessive pride or self-confidence |
| Tyrant | A ruler who rules through fear and violence |
| Corrupt | Acting dishonestly <i>OR</i> being in a state of decay |
| Patriarchal | A society where power is in the hands of men |
| Duplicious | Lying and being false. Two-faced. Deceitful |
| Façade | A false front, mask or illusion. Hiding one’s true feelings |
| Prescient | Having knowledge of things before they happen – the witches |
| Nihilistic | The belief that everything is meaningless |
| Courageous | Being very brave |
| Supernatural | Things that are not a part of the natural world |
| Fate | Events being already decided and out of a person’s control |
| Treachery | Betraying someone’s trust |
| Regicide | The killing of a king |

| 5. Key Terminology, Symbols and Devices | |
|---|--|
| Motif | A recurring image or idea that has symbolic importance. The best example in Macbeth would be blood. |
| Soliloquy | When a character is alone on stage and speaks their thoughts aloud to themselves. |
| Iambic Pentameter | A line of a play or poem that has ten syllables organised into five pairs of syllables, where the second in each pair is emphasised. e.g. “When you durst do it then you were a man” |
| Foreshadowing | When a hint or warning is given about a later event. |
| Dramatic Irony | When a character is unaware of something that the audience is aware of, so they don’t know the full significance of their words. |
| Symbolism | When something symbolises a set of ideas e.g. “The raven himself is hoarse” – raven symbolic of death, supernatural. |
| Aside | When a character pauses in a conversation to speak only to the audience or another character, unheard by the rest. |

| The Big Ideas | Notes | The Methods | Notes |
|---|-------|---|-------|
| 1. Shakespeare uses the play to demonstrate the terrible consequences of disrupting the natural order . His rule is unnatural and brings only disorder and sickness. His death restores balance. | | 1. Shakespeare uses blood as a metaphor for guilt through the play. As the guilt increases, the volume of blood increases. | |
| 2. Shakespeare uses the play to demonstrate the consequences of engaging with the supernatural . | | 2. Shakespeare uses apparitions to present the consequences of ungodly behaviour and is ambiguous about whether they are real or imagined. | |
| 3. Shakespeare uses Macbeth's role as a tragic hero to highlight how vulnerable people are to the destructive temptation of power . | | 3. Shakespeare's characterisation of Macbeth and Lady Macbeth establishes the idea that ungodly deeds do not go unpunished. | |

T6 Y10 Grammar Science B6 – Variation and Evolution

Genetic Engineering

- Process which involves modifying the **genome** of an organism by introduction a gene from another organism to give a **desired characteristic**.

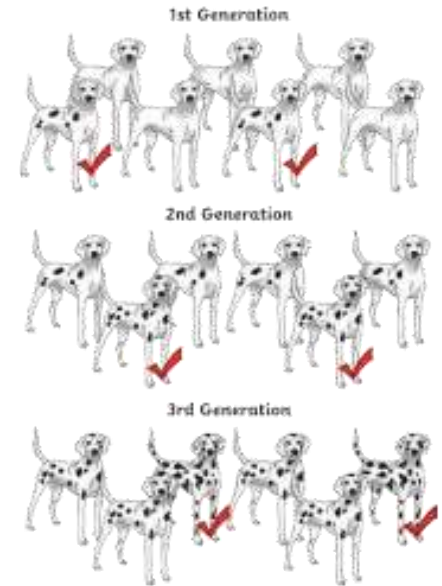
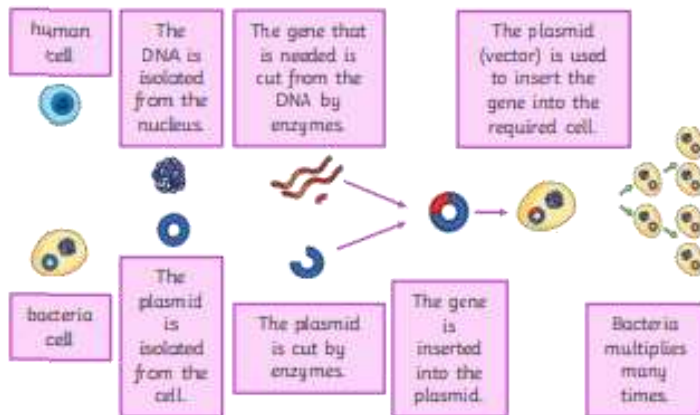
Uses of genetic engineering:

- Plant crops to be **resistant** to diseases or produce bigger, better fruits.
- Bacteria cells to produce useful substances, such as human insulin to treat diabetes.

Genetically modified (GM) crops

| Advantages | Disadvantages |
|----------------------------|--|
| Resistant to insect attack | Not sure on long term effects when eating GM crops |
| Produce increased yields | Could affect populations of wild flowers and insects |

Process of Genetic Engineering (HT only)



Selective Breeding

- Process which humans breed plants and animals for particular **genetic characteristics**.

Steps of selective breeding:

1. Choose a male and female with **desired characteristics**.
2. Breed together
3. Pick the offspring which have the desired characteristic and breed together.
4. Continue over many generations, selecting the best offspring each time, until all offspring show desired characteristics.

T6 Y10 Grammar Science B6 – Variation and Evolution

1. What is genetic engineering?
2. State two uses of genetic engineering.
3. What does 'GM' stand for?
4. State two advantages of GM crops.
5. State two disadvantages of GM crops.
6. Describe the stages of genetic engineering (HT only).

1. What is selective breeding?
2. Describe the four stages of selective breeding.
3. Why might a characteristic be chosen?
4. Give 3 examples of characteristics humans may choose.

T6 Y10 Grammar Science B6 – Genetics and Evolution

Extinction

Extinction = no remaining individuals of a species still alive on Earth.

Factors which could cause extinction:

- New disease
- Rapid change in environment (e.g. meteor/volcano eruption)
- New predators
- New competitors (often man)



Evidence for evolution

Fossils

Fossils are the **remains of plants or animals** from **millions of years ago**:

They are formed in different ways:

- Remains of an organism that has not fully decayed as one of the decay conditions was absent (e.g. too cold, not enough O₂)
- Mineralised forms of the harder parts of an organisms (such as bones)
- Traces of organisms such as footprints or burrows.

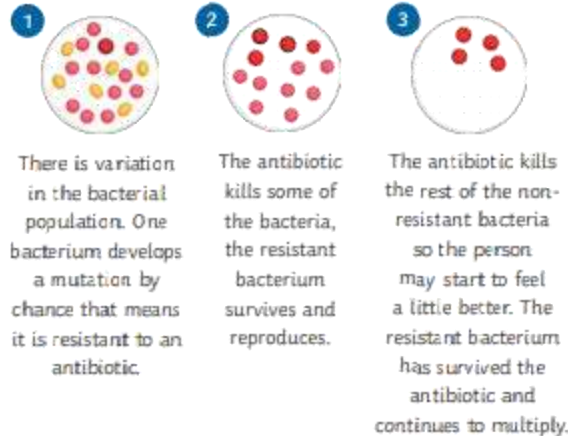
Many early life forms were **soft bodied** so have left few traces behind, as they decayed so we cannot be sure how life started on Earth. Many have been destroyed by Earth's rock cycle. Fossils help us understand how much or little organisms have changed as life developed on Earth.

Resistant Bacteria

- Bacteria **evolve** rapidly as they reproduce at a fast rate. (reproduce approx. every 20 mins)
- Mutations of bacteria can produce new strains.

- Some strains are **resistant** to antibiotics (so are not killed).
- They **survive** and **reproduce** – population of resistant strain rises.
- Resistant strain will spread because people are not **immune** and there is no effective treatment.

- **MRSA** is **resistant** to antibiotics.

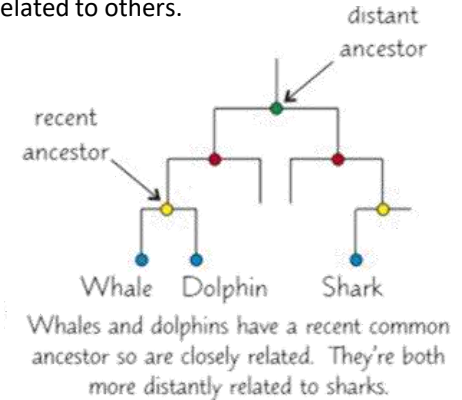


How to reduce antibiotic resistant strains:

- Doctors should not prescribe antibiotics for viral infections
- Patients must complete courses of antibiotics
- Agricultural use of antibiotics should be restricted.

Evolutionary trees

Show how species have evolved from and are related to others.

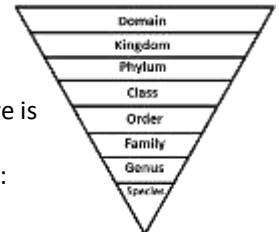


Classification

Linnaeus classified things into: Kingdom, phylum, class, order, family genus and species.

Organisms are named by the **binomial system** of genus and species. (2 names)

Due to evidence from chemical analysis, there is now a 'three-domain system' by Carl Woese:



| Domain | bacteria | archaea | eukaryota | | | |
|---------|------------|-----------------|-----------|-------|---------|----------|
| Kingdom | eubacteria | archaeobacteria | protista | fungi | plantae | animalia |

T6 Y10 Grammar Science B6 – Genetics and Evolution

1. What does 'extinct' mean?

2. What are fossils?

3. Describe one way fossils can form

4. What do fossils show us?

5. Why is the fossil record incomplete?

6. What factors can cause extinction?

1. Why do bacteria evolve rapidly?

2. What can cause new strains of bacteria?

3. Name a bacteria which is resistant to antibiotics.

4. What are the three ways to reduce antibiotic resistance strains?

1. What do evolutionary trees show?

1. How did Linnaeus classify organisms?

2. What are Carl Woese's three domains?

3. What does 'binomial' mean?

T6 Y10 Grammar Science C8 – Chemical Analysis

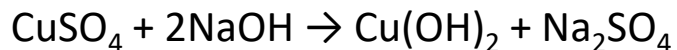
Metal hydroxides

Sodium hydroxide solution can be used to identify some metal ions (cations).

Solutions of aluminium, calcium and magnesium ions form white precipitates when sodium hydroxide solution is added but only the aluminium hydroxide precipitate dissolves in excess sodium hydroxide solution.

Solutions of copper(II), iron(II) and iron(III) ions form coloured precipitates when sodium hydroxide solution is added.

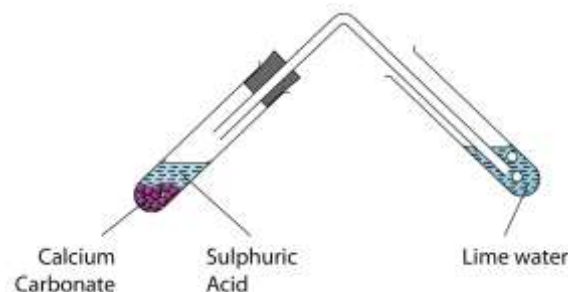
Copper(II) forms a blue precipitate, iron(II) a green precipitate and iron(III) a brown precipitate.



Carbonates

Carbonates react with dilute acids to form carbon dioxide gas.

Carbon dioxide can be identified with limewater, it will go cloudy.



T6 Y10 Grammar Science C8 – Chemical Analysis

1. What test do we do to test for some metal ions (cations)?
2. What is seen when this test reacts with these aluminium ions?
3. What is seen when this test reacts with these calcium ions?
4. What is seen when this test reacts with these magnesium ions?
5. What is seen when this test reacts with these copper (II) ions?
6. What is seen when this test reacts with these iron (II) ions?
7. What is seen when this test reacts with these iron (III) ions?

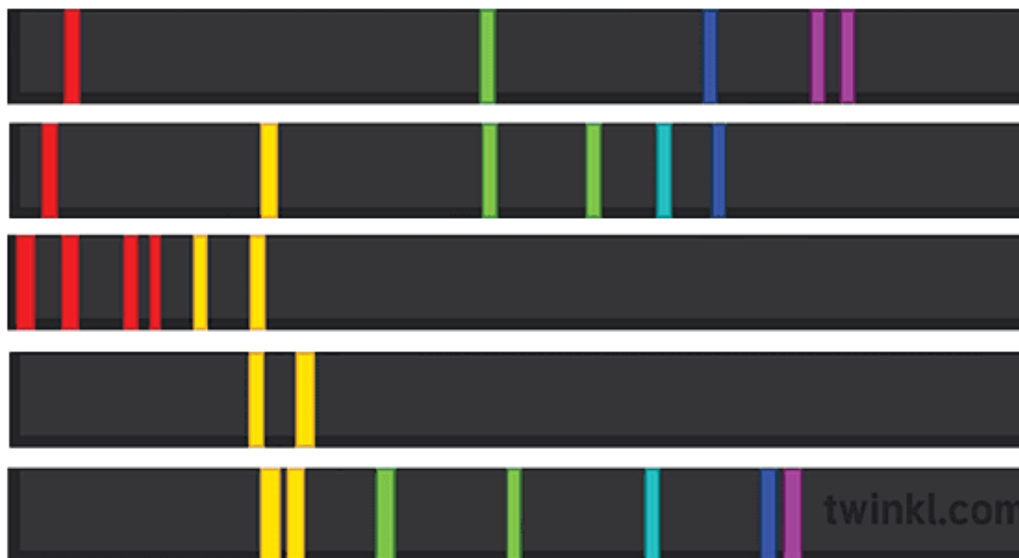
1. What is the test for carbonates?
2. How can you test that carbon dioxide has been produced?

Instrumental methods

Elements and compounds can be detected and identified using instrumental methods. Instrumental methods are accurate, sensitive and rapid. Students should be able to state advantages of instrumental methods compared with the chemical tests in this specification.

Flame emission spectroscopy

Flame emission spectroscopy is an example of an instrumental method used to analyse metal ions in solutions. The sample is put into a flame and the light given out is passed through a spectroscope. The output is a line spectrum that can be analysed to identify the metal ions in the solution and measure their concentrations.

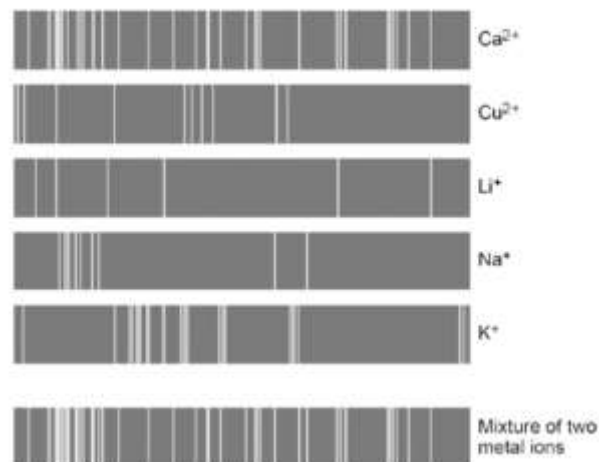


C4.12 – Chemical Analysis

1. What are the 3 things that are advantageous about instrumental techniques?

1. Name 3 metal ions that are in the sample from the picture
2. What is the reason to do flame emission spectroscopy?

Figure 3



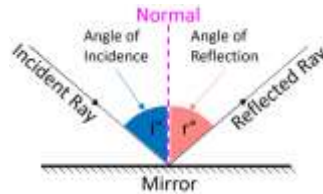
T6 Y10 Grammar Science P6 Light

Reflection

Definition: The change of direction of a light ray or wave at a boundary when the incident ray stays within the medium.

Law of reflection

The angle of incidence = angle of reflection



Specular reflection

Definition: Reflection from a smooth surface. Each light ray is reflected in a single ray.



Diffuse reflection

Definition: Reflection from a rough surface. The light rays are scattered in different directions

Colour

White light can be split into the colours of the rainbow, each with a different wavelength



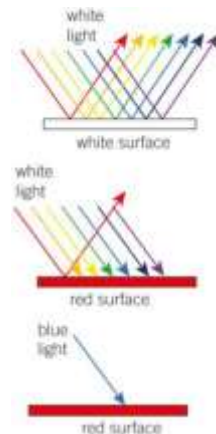
Primary and secondary colours

Red + yellow = green

Green + blue = cyan

Blue + red = magenta

Green + blue + red = white



A white object looks white because it **reflects** all the wavelengths of visible light that reach it.

A red object looks red because it **absorbs** all the wavelengths of light except red. Only red light is **reflected**.

If only blue light is shone on a red surface it is **absorbed**, and no light is **reflected**, so the surface looks black

Ray diagrams

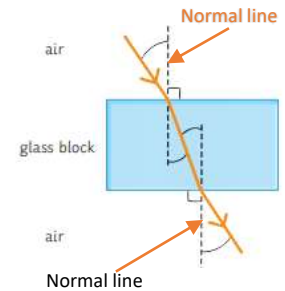
- You need to construct **ray diagrams** to show how a wave is **refracted** at the boundary of a different medium.

Less dense → More dense (e.g. air to glass)

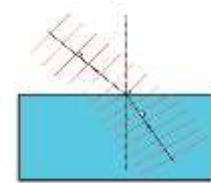
- Ray **slows down** and bends **towards the normal line**.

More dense → Less dense (e.g. glass to air)

- Ray **speeds up** and bends **away from the normal line**.



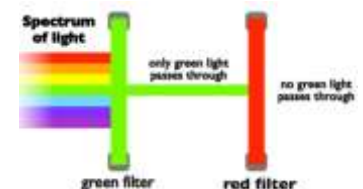
The ray bends because different parts of the wavefront cross the boundary at slightly different times –



If wave hits medium at an angle of 90° then the ray will slow down but will not be refracted.

Filters

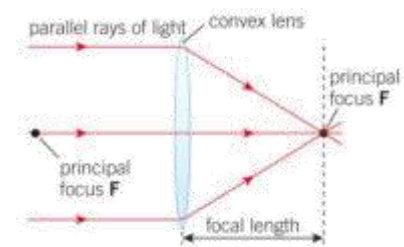
Filters change the colour objects appear as the only let certain wavelengths of light through. A green filter absorbs all colours except green, and **transmits** only green light



T6 Y10 Grammar Science P6 Light

- | | |
|--|--|
| <ol style="list-style-type: none">1. What is reflection?2. Draw a labelled diagram to show reflection of a ray of light by a mirror.3. What is specular reflection?4. What is diffuse reflection? | <ol style="list-style-type: none">1. What happens when a ray goes from a less dense → more dense medium?2. What happens when a ray moves from a more dense → less dense medium?3. What is the line at 90° to a surface called?4. 4. What happens if a ray hits a medium at 90°? |
| <ol style="list-style-type: none">1. What are the primary colours of light?2. Why does a red object look red?3. Why does a blue filter make everything appear blue? | |

T6 Y10 Grammar Science P6 Light

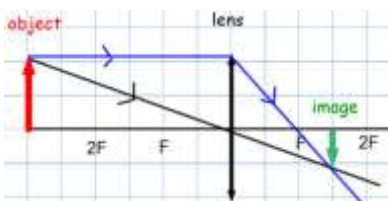


Convex (Converging) Lenses make parallel rays of light converge to meet at the principal focus. Focal length = distance from centre of lens to principal focus

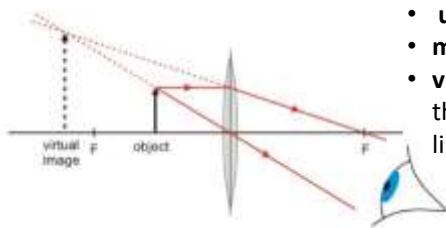
To draw a ray diagram:

Draw two rays from the top of the object

1. A ray parallel to the principal axis, which is refracted through the principal focus.
2. A ray through the centre of the lens, which does not change direction.
3. To create the image, draw an arrow from the principal axis to the point where the rays meet.



The image above is **inverted** (upside down), **diminished** (smaller than the object) and **real** (the rays of light pass through it).

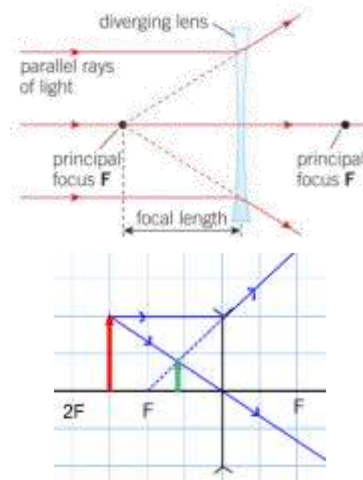


This image is

- **upright** (right way up),
- **magnified** (larger than the object)
- **virtual** (rays of light don't pass through it); represented by dotted lines

Convex lenses can produce **real** or **virtual** images.

Concave (Diverging) Lenses make parallel rays of light diverge (spread out), as if they have come from the principal focus of the lens



To draw a ray diagram:

Draw two rays from the top of the object

1. A ray parallel to the principal axis, which is refracted as if it came from the principal focus on the same side of the lens.
2. A ray through the centre of the lens, which does not change direction
3. To create the image, draw an arrow from the principal axis to the point where these rays appear to meet.

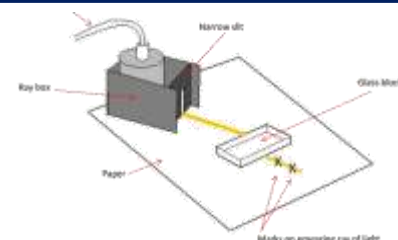
Concave lenses always produce **virtual** images.

Magnification: If the image is bigger than the object the magnification is greater than 1. If the image is smaller than the object, the magnification is less than 1.

Magnification is a ratio and so does not have units.

$$\text{Magnification} = \frac{\text{Image size}}{\text{Actual size}}$$

Required Practical: use different substances and surfaces to investigate refraction and reflection of light



T6 Y10 Grammar Science P6 Light

1. What does a convex lenses do to parallel rays of light?

2. How do you draw a ray diagram for a convex lens?

3. What is a real image?

4. What is a virtual image?

5. What type of does a concave lens produce?

1. What does a concave lenses do to parallel rays of light?

2. How do you draw a ray diagram for a concave lens?

3. What type of does a concave lens produce?

1. What is the formula to calculate magnification?

2. What does a magnification of less than 1 mean?

1. What equipment would you use to investigate the refraction of light through a glass block.

1. The UK's diverse landscapes



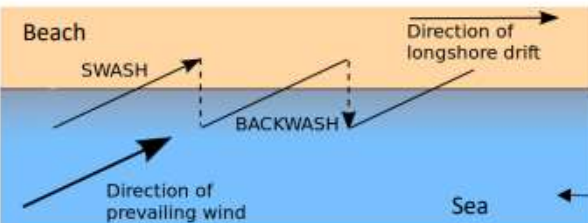
| Term | Definition |
|---------------|--|
| Relief | Shape of the land. |
| Upland areas | Land over 200m. Highlands. Steep. |
| Lowland areas | Land below 100m. Flat or rolling hills |

2. Waves

| Term | Definition |
|--------------------|---|
| Swash | Movement of the water UP the beach in the direction of the prevailing wind. |
| Backwash | Movement of water DOWN the beach at right angles (90°) due to gravity. |
| Constructive waves | Build up the beach. Strong swash. Weak backwash. Low height, long wave length. Low frequency. |



| | |
|-------------------|---|
| Destructive waves | Erode the coast. Weak swash. Strong backwash. Tall height, short wave length. High frequency. |
|-------------------|---|



3. Processes

Sub-aerial processes (above the sea)

Weathering

Wearing away of rocks in situ. Material not removed.

Mechanical weathering The breaking down of rock without changing its composition. Freeze thaw.

Chemical weathering The breaking down of rock caused by chemicals. (e.g. weak acid rain).

Mass movement

The downhill movement of material under the force of gravity.



Rockfall Free fall of rocks under force of gravity.

Sliding Material collapsing in a straight line.

Slumping Downward rotation of sections of cliff along a slip plane. Worse when saturated.

Marine processes

Erosion

The wearing away and removal of material by a moving force such as a breaking wave.

Hydraulic power The sheer force of the water compressing air into cracks causes bits to break off.

Abrasion Sediment scraping against the cliff (like sandpaper) removing small pieces.

Attrition The 'smashing' of sediment against each other to become more rounded.

Solution Chemical erosion caused by the dissolving of rocks by sea water.

Deposition

Dropping of material Occurs when there is a loss of energy. e.g.. Sheltered bays, when the wind drops.

Transportation

Longshore drift Zig zag movement of sediment along the coastline.

4. Erosional landforms

Headlands and bays

| | |
|--------|--|
| Step 1 | Discordant coastlines have alternating bands of more resistant (chalk) and less resistant rock (clay). |
| Step 2 | The less resistant rock is eroded faster through abrasion , creating bays. |
| Step 3 | The more resistant rock erodes slower and is left jutting out to sea forming a headland. |

Wave cut platforms

| | |
|--------|---|
| Step 1 | Waves erode cliff base between high+ low tide |
| Step 2 | Abrasion create a wave cut notch which enlarges over time. |
| Step 3 | The rock above the notch is unsupported so will collapse due to gravity (mass movement). |
| Step 4 | Cliff retreats , leaving a wave cut platform (the un-eroded original cliff left behind). |



Cave, arch, stack

| | |
|--------|---|
| Step 1 | Hydraulic power enlarges cracks in headland |
| Step 2 | Over time they turn into a cave. |
| Step 3 | Back of cave is deepened by abrasion until it erodes through the headland > arch. |
| Step 4 | Weathering and erosion wear away at the arch until it eventually collapses (gravity). |
| Step 5 | A stack is formed. |



Example of a UK coastline. Dorset coastline.

| | |
|--------------------|----------------------------|
| Headlands and bays | Swanage Bay, Durlston Head |
| Wave cut platform | Kimmeridge |
| Arch | Durdle Door (concordant) |
| Stack | Old Harry |

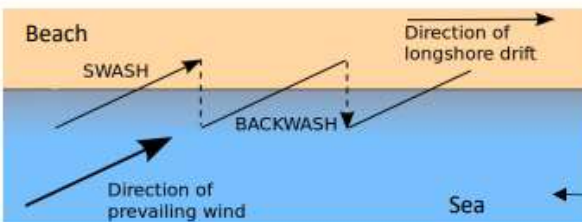
1. The UK's diverse landscapes

| Term | Definition |
|---------------|------------|
| Relief | |
| Upland areas | |
| Lowland areas | |



2. Waves

| Term | Definition |
|--------------------|------------|
| Swash | |
| Backwash | |
| Constructive waves | |
| Destructive waves | |



3. Processes

Sub-aerial processes (above the sea)

Weathering

| | |
|-----------------------|--|
| Mechanical weathering | |
| Chemical weathering | |

Mass movement



| | |
|----------|--|
| Rockfall | |
| Sliding | |
| Slumping | |

Marine processes

Erosion

| | |
|-----------------|--|
| Hydraulic power | |
| Abrasion | |
| Attrition | |
| Solution | |

Deposition

| | |
|----------------------|--|
| Dropping of material | |
|----------------------|--|

Transportation

| | |
|-----------------|--|
| Longshore drift | |
|-----------------|--|

4. Erosional landforms

Headlands and bays

| | |
|--------|--|
| Step 1 | |
| Step 2 | |
| Step 3 | |



Wave cut platforms

| | |
|--------|--|
| Step 1 | |
| Step 2 | |
| Step 3 | |
| Step 4 | |

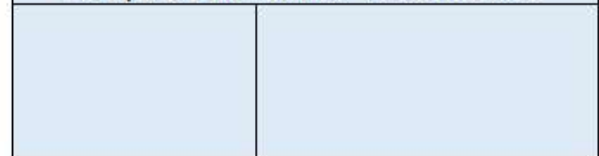


Cave, arch, stack

| | |
|--------|--|
| Step 1 | |
| Step 2 | |
| Step 3 | |
| Step 4 | |
| Step 5 | |



Example of a UK coastline. Dorset coastline.



5. Depositional landforms**Beaches Swanage**

- Step 1 Beaches form when **deposition** occurs.
- Step 2 There needs to be a source of sediment nearby like soft cliffs.
- Step 3 Constructive waves **deposit** material in sheltered areas like bays.

Sand dunes Studland

- Step 1 Wind blows sand up the beach (**saltation**).
- Step 2 Obstacles such as seaweed cause the wind speed to decrease resulting in **deposition**.
- Step 3 Over time sand dunes build up and are colonised by marram and lyme grass.
- Step 4 This vegetation stabilises the sand dunes.

Spits Sandbanks

- Step 1 Longshore drift transports sediment along the coast in the direction of the prevailing wind (**swash** and **backwash**).
- Step 2 Where the coastline changes direction...
- Step 3 Sediment is **deposited** in calm weather out to sea.
- Step 4 Can form a hooked end and a salt marsh behind the spit where it is sheltered.

**Bar**

- Step 1 When a spit joins two headlands.
- Step 2 A lagoon forms behind the bar.

**6. Coastal management****Hard engineering**

Man made structures built to control the sea. Reduces flooding and erosion.

| Strategy | Explanation | Costs | Benefits |
|-------------|--|--|--|
| Sea walls | A hard wall made out of concrete that reflects waves back out to sea | Expensive (£2000 per/m). Life span 75 years. | Prevents erosion / flooding. Often protects tourist resorts. |
| Rock armour | Boulders piled up along the coast. These erode rather than the coast. | Boulders can be moved by waves and need replacing. | Gaps allow water through, reducing wave energy. Cheap |
| Gabions | Wire cages filled with rocks at the base of cliffs. Absorb wave energy. | Ugly to look at. £100 per/m Metal corrodes over time. | Cheap and easy to build. Reduce erosion. |
| Groynes | Wooden fences at right angles to the coast, preventing sand moving by longshore drift = wider beach. | Starve beaches further along the coast = more erosion there. Life span only 25 years | Stops longshore drift removing beaches. Fairly cheap. |

Soft engineering

Schemes set up using a natural approach to managing the coast.

| Strategy | Explanation | Costs | Benefits |
|-------------------|---|--|---|
| Beach nourishment | Sand and shingle from elsewhere is added to beaches. Wider beaches stop erosion and flooding | Needs redoing every 5 years. Sand has to be brought from elsewhere. Expensive. | Blends with existing beach. Larger beaches = tourists. |
| Reprofiling | Sediment is redistributed from the lower part to the upper part of the beach. Increases gradient. | Only works if wave energy is low. Needs to be redone lots. | Cheap and simple. Reduces energy of the waves. |
| Dune regeneration | Creating or restoring sand dunes by nourishment or planting marram grass to stabilise the sand | Protects only a small area. Areas zoned off from public which is unpopular. | Sand dunes create a barrier between the sea and land. Stabilisation is cheap. |

Managed retreat

Coastal realignment

Remove current defences, allow sea to flood the land behind. Over time land becomes a marshland.

Land is lost = conflict (farmers) Salt water can negatively impact existing ecosystems.

Cheap and easy. Doesn't need maintenance. New habitats created.

7. An example of a coastal management scheme

| What? | Reasons for management | Management strategy | Effects and conflicts |
|---|--|--|---|
| Bournemouth Beach Management Scheme. Aim: Hold the line and protect tourism. | Coastline would erode at a metre a year. Beach important for tourism (£413million). 3114 homes at risk from collapsing cliffs. | 3 phases costing £50 million. HARD: Replaced or added 53 groynes. SOFT: 3 lots of replenishment, every 5 yrs | ✓ Beaches = More tourists = 9000 jobs ✗ Barton on Sea at risk from erosion. ✗ Conflict: locals vs construction. |

5. Depositional landforms**Beaches** Swanage

Step 1
Step 2

Step 3

Sand dunes Studland

Step 1
Step 2

Step 3

Step 4

Spits Sandbanks

Step 1

Step 2
Step 3

Step 4

**Bar**

Step 1
Step 2

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| Dune regeneration | | | |

Managed
retreat
Coastal realignment

7. An example of a coastal management scheme

| What? | Reasons for management | Management strategy | Effects and conflicts |
|-------|------------------------|---------------------|-----------------------|
| | | | |

| What we are learning this term: | |
|---------------------------------|---|
| A. | Why was Hitler able to increase his control over Germany from 1933? |
| B. | What was the Night of the Long Knives? |
| C. | How did Hitler create a Nazi police state? |
| D. | How did Hitler control the church and the people of Germany? |
| E. | What opposition was there to the Nazis? |

| A. | Why was Hitler able to increase his control over Germany after 1933? |
|-------------------|--|
| Reichstag Fire | On the 27 th February 1933, the Reichstag building was set on fire and was completely destroyed |
| Van der Lubbe | Dutch communist was found at the scene of the fire and was arrested. He confessed and executed for the crime |
| Communists | The Nazis blamed the communists for the fire and used this as a chance to arrest 4,000 communists (the enemy) |
| Enabling Act | Hitler used the Reichstag fire as an opportunity to take more control of Germany by passing the Enabling Act. This meant that he could pass laws without the Reichstag |
| Trade Unions | Hitler saw the trade unions as a threat as there could be communists amongst the working men who could challenge the government so he banned them |
| Political Parties | Next Hitler got rid of all other political parties so that the NSDAP were the only party that people could vote for |
| Local Government | The last step was to make sure that Hitler had full control of the government which he did by getting rid of local government |

| B. | What was the Night of the Long Knives? |
|--------------------------|---|
| Ernst Rohm | Rohm was the leader of the SA and also a threat to Hitler. The men in the SA were loyal to him and not to Hitler and Rohm also disagreed with some of Hitler's policies |
| The SA | By 1933 there were 3 million members in the SA, which meant that there were more men in this group than in the SS which was not good for Hitler if they challenged him |
| Himmler and Heydrich | Heydrich and Himmler were the leaders of the SS and they did not like Rohm and the power that the SA had so they wanted to get rid of this group |
| Night of the Long Knives | On the night of the 30 th June, Hitler arranged a meeting with Rohm and other officers of the SA. When they arrived they were arrested, imprisoned and shot |

| C. | How did the Nazis create a police state in Germany? |
|----|--|
| 1. | Police State – This is a country where the government controls people's freedom using the police |
| 2. | The SS – This group was the Nazi's own private police who were loyal to Hitler. They helped to run the concentration camps |
| 3. | The SD – This group kept a record of anyone who was against the Nazis |
| 4. | Gestapo – Germany state secret police who were known for their violent actions. People did not know who the Gestapo were as they wore ordinary clothes |
| 5. | Law courts – Hitler controlled the law courts by making sure that people who were tried there did not get a fair trial and were usually sent to prison if they were against the Nazis |
| 6. | Concentration camps – This is a place where people were held as prisoners for political reasons. People sent there were groups such as Jews and communists |

| D. | How did the Nazis control the church and the people? |
|--------------|---|
| Reich Church | This was a protestant church in German that was set up by those who worked for and supported the Nazis which helped Hitler control the Protestant church |
| Concordat | Hitler signed a concordat (agreement) with the Pope in 1933. He promised that Catholics would have freedom of religion if they did not get involved with politics. However, Hitler went against the agreement as he did not trust Catholics |
| Propaganda | This means to create ideas and opinions in people about certain groups. The Nazis used propaganda to make people hate the Jews and support the Nazis |
| Censorship | This means to hide information from people to create opinions and thoughts about certain groups. The Nazis censored the information people heard in the news |
| Media | The Nazis controlled the media such as newspapers and radio stations by telling them what to write and say |
| Rallies | Rallies were a good form of propaganda as they were bright and showed that the Nazis were strong enough to save Germany |

| E. | What opposition was there to the Nazis? |
|----------------------------|--|
| Opposition | This means to actively work against something to try and remove it. There was some opposition in Germany against the Nazis from certain groups |
| Opposition from the church | Some members of clergy spoke out against the actions of the Nazis. Martin Niemoller set up the Pastors Emergency League which was a group of protestant pastors who were against the Nazis |
| Opposition from the youth | There were a few youth opposition groups, made up of teenagers who did not like the strict control of the Nazis. There was the White Rose Group, Edelweiss Pirates and the Swing Youth |
| Support for Nazis | Overall the Nazis had a lot of support in Germany due to propaganda, people not wanting to lose their jobs and people also being scared of the Nazis |

| What we are learning this term: | |
|---------------------------------|---|
| A. | Why was Hitler able to increase his control over Germany from 1933? |
| B. | What was the Night of the Long Knives? |
| C. | How did Hitler create a Nazi police state? |
| D. | How did Hitler control the church and the people of Germany? |
| E. | What opposition was there to the Nazis? |

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|-------------------|--|
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| Van der Lubbe | |
| Communists | |
| Enabling Act | |
| Trade Unions | |
| Political Parties | |
| Local Government | |

| B. | What was the Night of the Long Knives? |
|--------------------------|--|
| Ernst Rohm | |
| The SA | |
| Himmler and Heydrich | |
| Night of the Long Knives | |

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|----|--|
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|--------------|--|
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| Propaganda | |
| Censorship | |
| Media | |
| Rallies | |

| E. | What opposition was there to the Nazis? |
|----------------------------|---|
| Opposition | |
| Opposition from the church | |
| Opposition from the youth | |
| Support for Nazis | |



| Keywords | |
|------------------------|--|
| Tawhid | The belief in Islam that there is only one God who created everything |
| Omnipotent | God is all powerful and "has power over everything" |
| Immanent | God is active in the world and involved in its' creation. |
| Transcendent | God is outside of time and space. God cannot age or die or be located in one place. |
| Beneficent | Allah is compassionate, caring and good |
| Sunnah | The traditions and practices of the Prophet Muhammad |
| Qur'an | The Islamic sacred book |
| Hadith | A collection of traditions and sayings of the Prophet Muhammad |
| 6 Articles of Faith | 6 basic beliefs that shape the Islamic way of life |
| 5 Roots of Usul Ad-Din | 5 rules which explain how Muslims should act in daily life |
| Akhirah | Belief in the afterlife |
| Al Qadr | Supremacy of God's will and The belief in predestination which is slightly different for Sunni and Shi'a Muslims |

| What we are learning in this unit | | |
|--|--|---|
| A. 6 Articles of Faith B. 5 Roots of Usul Ad-Din C. Sunnah and Hadith D. Risalah E. Torah, Psalms and Gospels F. Nature of Allah G. Qu'ran H. Torah, Psalms and Gospels I. Angels J. Al Qadir K. Day of Judgement, Paradise and Hell | | |
| B. | 5 Roots of Usul Ad-Din | |
| The 5 roots of Usul ad-Din are central to the Shi'a Muslim faith. | | |
| Root | What is it? | Quote |
| 1: Tawhid | The belief in the oneness of Allah | "He is God the One, God the eternal" Surah 112 |
| 2: Risalah | Belief in prophethood: the chain of messengers from Adam to Muhammad | "We sent messengers to every community" Surah 16 |
| 3: Adalat | Allah is just (fair) and will bring Divine Justice | "I advise you to being just towards both friend and foe" Imam Ali |
| 4: Imamah | A term for God-given leadership | "obey God and the Messenger, and those in authority among you" |
| 5: Mi'ad | The day of judgement and resurrection | "His is the judgement; and to Him you shall be returned" |

| A. | <i>6 Articles of Faith</i> |
|------------------------------------|---|
| Article of faith | What is it? |
| 1: Belief in one God | Allah is the creator and sustainer of life. There is no God but Allah |
| 2: Belief in Angels | Angels do the work of Allah and do not have free will like humans. They obey Allah |
| 3: Belief in God's revealed books | The Torah, the Psalms, the Gospels, the Scrolls of Abraham and the Qur'an. |
| 4: Belief in the messengers of God | Prophets and messengers are chosen by Allah to deliver His message to humankind |
| 5: Belief in the Day of Judgement | There will be a day when all people stand in front of Allah and are sent to Heaven or Hell |
| 6: Belief in pre-destination | Allah knows everything. Everything is ordered by Allah – nothing is random or by chance |
| C. | <i>Sunnah and Hadith</i> |
| Sunnah | <ul style="list-style-type: none"> The practices, customs and traditions of Prophet Muhammad They give an example for Muslims to follow The Sunnah and Hadith are sources of Wisdom and authority alongside the Qur'an |
| Hadith | <ul style="list-style-type: none"> Reading the Hadith helps a Muslim to learn how Muhammad explained the teachings from the Qur'an The Hadith makes the Qur'an easier to understand |
| What does the Sunnah tell Muslims? | <ul style="list-style-type: none"> The Sunnah covers many areas of life It provides a guideline for Muslim life There is a Sunnah for everything |



| Keywords | |
|------------------------|--|
| Tawhid | |
| Omnipotent | |
| Immanent | |
| Transcendent | |
| Beneficent | |
| Sunnah | |
| Qur'an | |
| Hadith | |
| 6 Articles of Faith | |
| 5 Roots of Usul Ad-Din | |
| Akhirah | |
| Al Qadr | |

| What we are learning in this unit | | |
|---|------------------------|-------|
| A. 6 Articles of Faith B. 5 Roots of Usul Ad-Din C. Sunnah and Hadith D. Risalah E. Muhammad F. Nature of Allah G. Qu'ran H. Torah, Psalms and Gospels I. Angels J. Al Qadir K. Day of Judgement, Paradise and Hell | | |
| B. | 5 Roots of Usul Ad-Din | |
| | | |
| Root | What is it? | Quote |
| 1: | | |
| 2: | | |
| 3: | | |
| 4: | | |
| 5: | | |

| A. | 6 Articles of Faith | |
|------------------|---------------------|-------------|
| Article of faith | | What is it? |
| 1: | | |
| 2: | | |
| 3: | | |
| 4: | | |
| 5: | | |
| 6: | | |
| C. | Sunnah and Hadith | |
| | | |
| | | |
| | | |



Year 10 GCSE Religious Education KO - Islam Beliefs



| D. | Risalah (Prophethood) | E | Torah, Psalms and Gospels |
|-----------------------------|---|--------------------|---|
| What is it | <ul style="list-style-type: none">Muslims believe there has been 124,000 prophetsEvery Islamic prophet preached Islam and key beliefsThe first was Adam, the last was Muhammad (Box E) | Psalms (Zabur) | <ul style="list-style-type: none">The Psalms of Dawud are a collection of prayers to AllahThey contain lessons of guidance for the people |
| Why are prophets important? | <ul style="list-style-type: none">Prophets are guided by AllahTheir love of Allah stops them from sinningSome prophets are messengers who have been given revelation of news | Gospel (Injil) | <ul style="list-style-type: none">This is the good news about Isa (Jesus)Muslims highly respect Isa because there are revelations in the Qur'an about himMuslims believe he was the Masih, he was not the son of Allah, he was not crucified, he did not die to save sinsThe gospels contain some mistakes because they were written many years after Isa died |
| Adam | <ul style="list-style-type: none">The first prophetThe father of all humankindHe taught about the work of Iblis and how to protect themselvesHe taught life on Earth was temporary, eternal life is in the next lifeHe built the Ka'aba as the first place of worship | Torah (Tawrat) | <ul style="list-style-type: none">The Tawrat is the Arabic word for the TorahThese are the revelations given to Moses by Allah on Mt SinaiThe Qur'an refers to the Tawrat as "guidance and light" |
| Ibrahim | <ul style="list-style-type: none">Ibrahim was told in a dream to sacrifice Isma'il as a test of faith – remembered at Hajj every yearHis son Isma'il is the ancestor of the prophet Muhammad | Scrolls of Ibrahim | <ul style="list-style-type: none">Revelations received by Ibrahim on the first day of RamadanContained stories about workshop and reflectionNot a book, individual revelations |

| F. | The Nature of Allah |
|-------------------------|--|
| Tawhid | <ul style="list-style-type: none"> There is only one God and this God has no equal. He created everything. Only He should be worshipped: worshipping other Gods is a sin called shirk. "There is no God but Allah, and Muhammad is his messenger". "Allah witnesses that there is no deity except Him" "Do they not see that Allah, who created the heavens and the Earth and was not wearied by their creation, has the power to raise the dead to life?" |
| 2: Omnipotent | Allah is all powerful and has power over everything |
| 3: Immanence | Allah is active in the world and able to control events |
| 4: Transcendent | <ul style="list-style-type: none"> Allah is outside of the universe Not limited by time or space |
| 5: Beneficence | God has love and good will |
| 6: Mercy | <ul style="list-style-type: none"> "In the name of Allah, the most compassionate, the most merciful" God is forgiving and caring |
| 7: Fairness and justice | <ul style="list-style-type: none"> Allah is fair to all people Allah has sent the same message to all prophets to allow humans numerous opportunities to submit to the will of Allah Allah will ensure that judgement is fair and punishments are suitable |



Year 10 GCSE Religious Education KO - Islam Beliefs



| D. | <i>Risalah (Prophethood)</i> | E | <i>Torah, Psalms and Gospels</i> |
|-----------------------------|------------------------------|--------------------|----------------------------------|
| What is it | | Psalms (Zabur) | |
| Why are prophets important? | | Gospel (Injil) | |
| Adam | | Torah (Tawrat) | |
| Ibrahim | | Scrolls of Ibrahim | |

| F. | <i>The Nature of Allah</i> |
|-------------------------|----------------------------|
| Tawhid | |
| 2: Omnipotent | |
| 3: Immanence | |
| 4: Transcendent | |
| 5: Beneficience | |
| 6: Mercy | |
| 7: Fairness and justice | |



Year 10 GCSE Religious Education KO - Islam Beliefs



| G. <i>Qur'an</i> | | I. <i>Angels</i> | |
|---|--|------------------------------|--|
| Revelation | <ul style="list-style-type: none"> Chapters of the Qur'an were revealed to Prophet Muhammad over 13 years in Makkah While Muhammad received the revelations, he was not able to change them because it was the will of Allah After Muhammad received them, he recited them, and somebody wrote them down. | What are they? | <ul style="list-style-type: none"> Angels are made from light and have wings which can move at the speed of light They have no gender and are in the unseen world They always complete what Allah asks and they always obey Allah as they have no free will |
| Authority | <ul style="list-style-type: none"> It is the direct word of Allah so it has His authority It is without error and remains in its' original form A written book was needed to formalise the religion | What do they do? | <ul style="list-style-type: none"> Watch over humans Bring peace to believers and instill fear in non-believers Angel of Death takes the soul at death Greet people entering paradise or throw people into the pits of hell Signify the end of the world by blowing a horn |
| What does it contain? | <ul style="list-style-type: none"> It covered every aspect of life It influences a person throughout their lives The basics of worship which Muhammad developed Shari'ah law and social systems It explains creations and other ultimate questions | Jibril | <ul style="list-style-type: none"> Most important angel in Islam Always brings good news Helped Ibrahim when he was thrown in to a fire, opened up the Zamzam well for Hajar Told Maryam she would have a son (Isa) Dictated the Qur'an directly from Allah |
| Supreme authority | <ul style="list-style-type: none"> The Qur'an is believed to have supreme authority It is a timeless book – it is only the word of Allah if it is not translated from Arabic | Mika'il | <ul style="list-style-type: none"> Assisted Muhammad with his spiritual mission Giver of rain and sustenance – in charge of plants and rain Helped Muhammad to fight for Makkah Will help to weigh peoples' actions on Judgement Day Mika'il prepared Muhammad by providing Jibril with purifying water |
| K. <i>Day of Judgement, paradise and Hell</i> | | J. <i>Al Qadir</i> | |
| What will happen? | <ul style="list-style-type: none"> Muslims believe Judgement day will come on a Friday (Adam was created on a Friday) It will be announced by Israfil's trumpet Allah will refer us to the book of deeds to justify damnation or salvation Humans will go to paradise or Hell | | <ul style="list-style-type: none"> Everything happens as a result of Allah's will and nothing is ever random or without reason Allah is in charge of everything Everything is a part of Allah's plan "never will we be struck except by what Allah has decreed for us" |
| Jannah | <ul style="list-style-type: none"> Paradise No growing ill, old or dying – it is a reward and gift from Allah A person must live religiously and ask Allah for forgiveness Good beliefs and actions It is beyond human imagination | E. <i>Muhammad</i> | |
| Entry to Jannah | <ul style="list-style-type: none"> "enter among my servants! Enter my paradise!" People will arrive over the As-Sirat bridge There are 8 gates and you go through the one which represents your best action Two angels welcome people saying "peace be upon you" | Why was he chosen? | <ul style="list-style-type: none"> Muhammad had characteristics such as responsibility, determination, patience, courage and honesty He was highly respected in his community He was extremely devoted to Allah – he prayed and fasted for long periods of time |
| Jahannam | <ul style="list-style-type: none"> Hell People wail in misery, 70x hotter than any flame on earth, boiling water poured on their heads, pain, dragged in chains Punishment for a life full of evil or rejecting the teachings of the Qur'an | What did he do as a prophet? | <ul style="list-style-type: none"> He became the ruler of Madinah and set up the first Islamic community He converted the people of Makkah to Islam |
| | | Why is Muhammad important? | <ul style="list-style-type: none"> He is seen as the perfect role model as he is trustworthy and obedient to Allah His influence can still be seen in the Hadith and Sunnah The night of power in Ramadan is to remember Muhammad's first revelation from the angel Jibril |



Year 10 GCSE Religious Education KO - Islam Beliefs



| G. | <i>Qur'an</i> | I. | <i>Angels</i> |
|-----------------------|---------------|------------------|---------------|
| Revelation | | What are they? | |
| Authority | | What do they do? | |
| What does it contain? | | Jibril | |
| Supreme authority | | Mika'il | |

| K. | <i>Day of Judgement, paradise and Hell</i> | J. | <i>Al Qadir</i> |
|--------------------|--|------------------------------|-----------------|
| What will happen ? | | | |
| Jannah | | E. | <i>Muhammad</i> |
| Entry to Jannah | | Why was he chosen? | |
| Jahannam | | What did he do as a prophet? | |
| | | Why is Muhammad important? | |



Year 10 GCSE Religious Education KO - Islam Practices



| | | | | | | |
|---------------|----------|---|--|--|-------------------------|---|
| | Keywords | | What we are learning in this unit | | B. | The 5 Pillars - Salah |
| Tawalla | | Showing love for God and for those who follow Him | A. The 5 Pillars and 10 Obligatory Acts B. Salah C. Sawm D. Zakah E. Hajj F. Jihad G. Id-ul-Adha H. Id-ul-Fitr | | What is it? | <ul style="list-style-type: none">“Salah is a prescribed duty that has to be performed at the given time by the Qur’an”Muslims pray 5 times per day and this allows them to communicate with Allah.The prayers are done at dawn (fajr), afternoon (zuhr), late afternoon (asr), dusk (maghrib) and night (isha)Muslims face the holy city of Makkah when paying. |
| Tabarra | | Disassociation with God’s enemies | | | | |
| Khums | | The obligation to pay one-fifth of acquired wealth | | | | |
| Lesser jihad | | The physical struggle or holy war in defence of Islam | | | | |
| Greater jihad | | The daily struggle and inner spiritual striving to live as a Muslim | A. 5 Pillars of Islam and 10 obligatory acts | | Wuzu | <ul style="list-style-type: none">The washing process to purify the mind and body for prayerMuhammad said the key to Salah is cleanlinessHands, arms, nose, mouth, head, neck and ears are cleaned as well as both feet up to the ankle. |
| Sunni | | Muslims who believe in the successorship of Abu Bakr, Umar, Uthman and Ali as leaders after the Prophet Muhammad | What are the 5 pillars | | Rak’ahs and recitations | <ul style="list-style-type: none">These are the movements that Muslims make during prayerTakbir – raise hands to ears and say 'Allahu Akbar'Qiyam – Standing, Muslims recite SurahThen bow to the waist saying "Glory be to my Great Lord and praise be to Him"Then sink to their knees saying "Glory be to my Lord, The Most Supreme..." |
| Shi’a | | Muslims who believe in the Imamah, leadership of Ali and his descendants | What are the 10 obligatory acts | | | |
| Niyah | | Intention during prayer - having the right intention to worship God | Shahadah | | | |
| Du’a | | A personal prayer that is done in addition to Salah e.g. asking Allah for help | <ul style="list-style-type: none">5 key practices or duties for MuslimsBoth Sunni and Shi’a keep these (Shi’a have them as part of the 10 obligations)They are seen as pillars “holding up the religion” and are all of equal importance <ul style="list-style-type: none">There are 10 obligations for a Muslim according to the Shi’a branch of Islam.These include prayer, fasting, almsgiving, pilgrimage, jihad, khums, directing others towards good, forbidding evil, tawalla and tabarra <ul style="list-style-type: none">Shahadah is the first of the 5 pillarsIt is the Muslim declaration of faith“there is no God but Allah, and Muhammad is His messenger”This is a statement that Muslims reject anything but Allah as their focus of beliefIt also recognises that Muhammad has an important role and his life is an example to follow | | | |
| | | Jihad | | | | |
| Lesser Jihad | | <ul style="list-style-type: none">Originated when Prophet Muhammad and early Muslims were being attacked and oppressed by the Meccans and had no choice but to engage“Fight in the way of God those who fight against you but do not transgress”Conditions for declaration<ul style="list-style-type: none">self-defenseproportionatelegitimate authorityno harm to civilians | | Jummah | | |
| Greater Jihad | | <ul style="list-style-type: none">A struggle within oneself to follow the teachings of Islam and be a better person e.g. perform the Five Pillars, follow Sunnah and avoid temptation“encourage what is right and forbid what is wrong” | | <ul style="list-style-type: none">Jummah is congregational prayer held on a Friday at the mosque where the imam leads the prayerPraying together as a community develops the feeling of unity amongst MuslimsMen are obliged to attend unless they are sick or too oldWomen do not have to go – they may pray at home instead | | |
| | | | | Differences between Sunni and Shi’a | | |
| | | | | <ul style="list-style-type: none">Shi’a Muslims combine some prayers so they may only pray 3x a dayShi’a use natural elements e.g. clay where their head rests | | |



| | | | | | | | |
|---------------|----------|------------------------|---|---|-------------------------|-------------------------------------|--|
| | Keywords | | What we are learning in this unit | | B. | The 5 Pillars - Salah | |
| Tawalla | | | A. The 5 Pillars and 10 Obligatory Acts B. Salah C. Sawm D. Zakah E. Hajj F. Jihad G. Id-ul-Adha H. Id-ul-Fitr | | What is it? | | |
| Tabarra | | | | | | | |
| Khums | | | | | Wuzu | | |
| Lesser jihad | | | | | | | |
| Greater jihad | | | A. | 5 Pillars of Islam and 10 obligatory acts | Rak'ahs and recitations | | |
| | | What are the 5 pillars | | | | | |
| Sunni | | | What are the 10 obligatory acts | | Salah at home | | |
| Shi'a | | | Shahadah | | | | |
| Niyyah | | | | | | | |
| Du'a | | | | | | | |
| | | Jihad | | | | Jummah | |
| Lesser Jihad | | | | | | | |
| Greater Jihad | | | | | | Differences between Sunni and Shi'a | |



Year 10 GCSE Religious Education KO - Islam Practices



| | <i>The 5 Pillars - Zakah</i> |
|---------------------------------|--|
| The role of giving alms | <ul style="list-style-type: none"> Muslims believe it is their duty to ensure Allah's wealth has been distributed equally as everyone is the same The Qur'an commands to give to those in need |
| The significance of giving alms | <ul style="list-style-type: none"> Giving 2.5% of savings/wealth to charity Wealth can cause greed which is evil, so Zakah purifies wealth – wealth is given by God and must be shared The Prophet Muhammad practiced Zakah as a practice in Medina Given to the poor, needy and travellers Sadaqah is giving from the heart out of generosity and compassion |
| Khums | <ul style="list-style-type: none"> Shi'a Islam – one of the 10 obligatory acts 20% of any profit earned by Shi'a Muslims paid as a tax Split between charities that support Islamic education and anyone who is in need "know that whatever of a thing you acquire, a fifth of it is for Allah, for the Messenger, for the near relative, and the orphans, the needy, and the wayfarer" |

| | <i>The 5 Pillars - Sawm</i> |
|-----------------------------|---|
| The role of fasting | <ul style="list-style-type: none"> Fasting during Ramadan (9th month in Muslim calendar) Muslims give up food, drink, smoking and sexual activity in daylight hours Pregnant people, children under 12, travellers and elderly people are exempt from fasting. |
| The significance of fasting | <ul style="list-style-type: none"> Ramadan is believed to be the month that Prophet Muhammad began to receive revelations of the Qur'an Helps Muslims to become spiritually stronger |
| Reasons for fasting | <ul style="list-style-type: none"> Obedying God and exercising self-discipline Develops empathy for the poor Appreciation of God's gifts Giving thanks for the Qur'an Sharing fellowship and community with other Muslims |
| Night of power | <ul style="list-style-type: none"> The night when the Angel Jibril first appeared to Muhammad and began revealing the Qur'an. The most important event in history – "better than a thousand months" [Surah 97:3] Laylat Al-Qadr is the holiest night of the year. Muslims try to stay awake for the whole night to pray and study for the Qur'an |

| | <i>The 5 Pillars - Hajj</i> |
|--------------------------------|---|
| The role of pilgrimage | <ul style="list-style-type: none"> A pilgrimage to Makkah which is compulsory for Muslims to take at least once as long as they can afford it and are healthy |
| The significance of pilgrimage | <ul style="list-style-type: none"> God told Ibrahim to take his wife and son on a journey and leave them without food or water Hajira ran up and down two hills in search of water, could not find any and prayed to God. Then water sprung from the ground. This is the Zamzam well When Ibrahim returned he was commanded to build the Ka'ba as a shrine dedicated to Allah Hajj is performed in the month of Dhu'l-Hijja |
| Actions | <ul style="list-style-type: none"> Ihram – dressing in two pieces of white cloth Circling the Ka'aba 7 times (tawaf) Drinking water from the Zamzam well like Hajar walking between Al-Safa and Al-Marwa hills seven times Throwing stones at 3 pillars (jamarat) to represent casting out the devil and remembering Ibrahim throwing stones at the devil to drive him away Asking Allah for forgiveness at Mt Arafat Collecting pebbles at Muzdalifah |

| | <i>Id-ul-Adha, Id-ul-Fitr, Ashura</i> |
|---|--|
| Id-ul-Adha Not an official holiday in UK | <ul style="list-style-type: none"> Festival of sacrifice Marks the end of Hajj and is a chance for whole Ummah to celebrate Origins – Ibrahim's commitment to God in being willing to sacrifice his son, Ishmael. God was testing Ibrahim Key events – new clothes, sacrificing an animal, visiting the Mosque. People ask a butcher to slaughter a sheep for them and share the meat with the community |
| Id-ul-Fitr Public holiday in Muslim majority countries, not UK | <ul style="list-style-type: none"> Festival of fast-breaking Marks the end of Ramadan Key events – Decorate homes with colourful light and banners, dress in new clothes, gather in Mosques, give gifts and money, give to the poor Zakah ul-Fitr – donation to the poor so that everyone can eat a generous meal at the end of Ramadan. |
| Ashura | <ul style="list-style-type: none"> Sunni celebration – many fast on this day which was established by Prophet Muhammad Shi'a mourning – Husayn was murdered and beheaded. Muslims remember his death and betrayal Key events – public displays of grief, day of sorrow, wear black, re-enactments of martyrdom, not a public holiday in Britain but Muslims may have day off school |



Year 10 GCSE Religious Education KO - Islam Practices



| | |
|---------------------------------|------------------------------|
| | <i>The 5 Pillars - Zakah</i> |
| The role of giving alms | |
| The significance of giving alms | |
| Khums | |

| | |
|-----------------------------|-----------------------------|
| | <i>The 5 Pillars - Sawm</i> |
| The role of fasting | |
| The significance of fasting | |
| Reasons for fasting | |
| Night of power | |

| | |
|--------------------------------|-----------------------------|
| | <i>The 5 Pillars - Hajj</i> |
| The role of pilgrimage | |
| The significance of pilgrimage | |
| Actions | |

| | |
|---|---------------------------------------|
| | <i>Id-ul-Adha, Id-ul-Fitr, Ashura</i> |
| Id-ul-Adha Not an official holiday in UK | |
| Id-ul-Fitr Public holiday in Muslim majority countries, not UK | |
| Ashura | |

39. Stakeholder

Stakeholders are the people or groups with an interest in the success or failure of an organisation.

Types of stakeholders & their typical objectives:**Business owners & shareholders**

Interested in the business being successful and making a profit.

Staff/managers

Interested in having job security, career development, fair wages etc.

Customers

Interested in getting an honest and fair deal from a business.

Local Community

Interested in honest and fair dealing/co-operation with the organisation with regards to local employment and environment.

Local Government

Interested in employment plans, location plans and business ability to pay tax.

Pressure Groups

Interested in fair and ethically correct business practices.

42. Retail Legislation

| | |
|-----------------------------------|--|
| Legislation | Law's passed by acts of parliament. Too many rules that impact on a business from operating as the owner would like are known as " Red Tape ". |
| Consumer Rights Act 2015 | <ul style="list-style-type: none"> • Goods must be fit for purpose and free from defects. • The buyer has the right to get their money back or have their product repaired at the seller's expense. • Any issues are to be dealt with by the seller and not the manufacturer. |
| Trade Descriptions Act | <ul style="list-style-type: none"> • Trader's can not use false or misleading statements. • Labels must not be misleading. |
| Other acts of legislation: | Consumer credit act 1974, The weights and measures act 1985, The food safety act 1990. |

40. Types of technology used in business

Technology is used in different aspects of business:

E-commerce: Allows businesses to sell their products online and reach a wider audience of potential customers with lower costs.

Social Media: Allows a business to communicate and interact directly with customers.

Digital Communication: E-mail allows customers to contact a business personally and directly.

Payment Systems: Online payment systems (eg. Paypal) allow all types of businesses to access their payments fast and easily.

41. How does technology influence business activity?

Sales can increase as a result of e-commerce because customers can access products or services 24 hours a day, 7 days a week. New technology drives innovation to create new products or services and this can increase sales of new products.

Costs can be reduced through advertising online through websites, e-mail newsletters, and via social media. Costs can also be reduced through manufacturing efficiency and being able to find the best deal on raw materials online.

The 4 P's are affected by different types of technology.

Product = New technologically advanced product or a new method of production.

Promotion = Digital marketing can improve the effectiveness of marketing and is cheap.

Place = Products can be sold online and can be accessed by customers worldwide.

43. Recruitment Legislation

Employees are protected from being exploited in the work place.

| | |
|---------------------------|---|
| Equality Act 2010 | Organisations must consider all job applicants equally <u>in regards to</u> gender, age, skin colour etc. |
| Equal Pay Act 1970 | Organisations must pay workers fairly and can not discriminate <u>in regards to</u> gender, age or skin colour etc. |

44. The Economy

The economy is the collection of business transactions that take place throughout the country, throughout the year.

| | |
|------------------------|--|
| Interest rates. | The amount that a lender charges per year to someone who has borrowed money. This is measured as a percentage. |
| Exchange rates | The value of the pound (£) measured by how much foreign currency can be bought per pound (£). |
| Recession | A downturn in sales and output throughout the economy, often leading to rising unemployment. |
| Inflation | The rate in which prices are rising from the same time last year. |

39. Stakeholder

Types of stakeholders & their typical objectives:

Business owners & shareholders

Staff/managers

Customers

Local Community

Local Government

Pressure Groups

40. Types of technology used in business

Technology is used in different aspects of business:

E-commerce:

Social Media:

Digital Communication:

Payment Systems:

41. How does technology influence business activity?**42. Retail Legislation**

Legislation

Consumer Rights
Act 2015Trade
Descriptions ActOther acts of
legislation:**43. Recruitment Legislation**Employees are protected from being exploited in the work place.Equality
Act 2010Equal Pay
Act 1970**44. The Economy**

The economy is the collection of business transactions that take place throughout the country, throughout the year.

Interest
rates.Exchange
rates

Recession

Inflation

Hardware and Software

Hardware:

The physical, electrical/mechanical parts of a computer. This consists of internal components such as the CPU and graphics card, and additional hardware which allows the users to communicate with the system through input and output devices, such as a monitor and a keyboard.

Externally attached hardware are known as peripherals.

Software:

The programs, data and applications in a computer system. Any parts of a computer system that aren't physical.

Software can be classified as either application or system software.

Application – Programs which perform specific end-user tasks. E.g. web browser, spreadsheet, games.

System – Programs which help to run or maintain the computer system.

System Software:

Operating Systems -

- Manages processes.
- Manages memory.
- Manages I/O (input/output) devices.
- Manages applications.
- Manages security (access levels, user accounts)
- Controls hardware components.
- Provides a platform for software to run on.
- Provides a user interface.

Utility Programs -

Programs which help to maintain or manage the computer system. E.g. Disk Defragmenters, Antivirus, Compression, Encryption, Registry Cleaners, Driver Updaters,

Translators -

Translate source code from a high-level language or assembly code into machine code (binary). There are three types, Compilers, Interpreters and Assemblers.

Compilers – Does the translation all at once and creates an exe file containing the machine code.

Interpreters – Does the translation line by line.

Assembler – Converts assembly code.

Boolean Logic Gates

AND Gate.

Both inputs need to be true for the output to be true.



| Input A | Input B | Output Q |
|---------|---------|----------|
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

OR Gate.

Either of the two inputs needs to be true for the output to be true.



| Input A | Input B | Output Q |
|---------|---------|----------|
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

NOT Gate.

Inverts the input.



| Input A | Output Q |
|---------|----------|
| 1 | 0 |
| 0 | 1 |

CPU Components

Control Unit (CU) – fetches, decodes and executes instructions. Sends control signals to the system and peripherals. Moves data around the system.

Arithmetic Logic Unit (ALU) – performs arithmetic and logical operations. Acts as a gateway between primary memory and secondary storage.

Cache – Small amount of high speed memory to store frequently used data and instructions.

Clock – Synchronises all computer's components by sending out regular electrical pulses. The more pulses per second, the more calculations and operations can be performed. This is measured in Hz.

Buses – Collections of parallel wires for high speed internal communication within the CPU.

Address Bus – Carries memory addresses.

Data Bus – Carries data between components.

Control Bus – Carries control signals.

Registers – Small amounts of high speed memory within the CPU. Special purpose ones listed below.

Program Counter – Holds the memory address of the next instruction.

Memory Address Register – Holds the address of the current instruction.

Memory Buffer/Data Register – Holds the data that is either being retrieved or stored.

Current Instruction Register – Holds the current instruction which needs to be decoded and executed.

Accumulator – Holds the result of calculations from the ALU.

Fetch-Decode-Execute Cycle

1. The memory address held in the program counter is copied into the MAR.
2. The address in the program counter is then incremented (increased by 1) so it now holds the address of the next instruction to be fetched.
3. The processor sends a signal along the address bus to the memory address held in the MAR.
4. The instruction/data in that memory address is carried by the data bus to the MBR/MDR.

5. The instruction/data in the MBR/MDR is copied to the CIR.

6. The instruction/data in the CIR is decoded and executed. Results of processing are stored in the ACC.

7. The cycle then returns to step one.

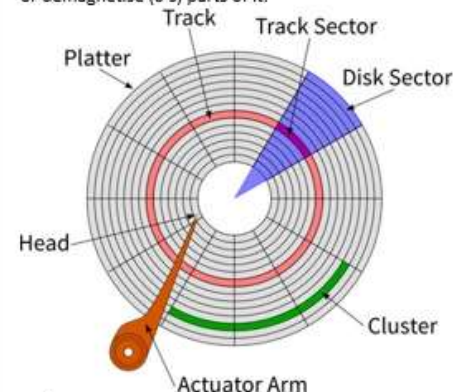
Secondary Storage

Secondary Storage is long-term, non-volatile storage. Without secondary storage, all programs and data would be lost when the computer is turned off.

Magnetic

Hard disks spin.

Actuator arm moves a read/write head over the disk to access parts of it. The head can detect the magnetisation of the disk and either magnetise (1's) or demagnetise (0's) parts of it.



Optical

Optical disk spins and has a spiral track.

Laser head is moved over the disk and shines the laser down onto it.

Disk has pits (scatters light 0's) and lands (reflects light 1's).

Writeable disks have photosensitive dye which is burned to represent 1's and 0's.

Solid State

A collection of semiconductor chips which can be accessed and written to extremely quickly.

No moving parts, so they are more reliable than disks.

| Key Verbs | | | | |
|-------------------------|------------------|-----------------------|-----------------------|------------------------|
| Salir To go out | Ir To go | Jugar To play | Hacer – to do/make | Tocar To play (ins) |
| Salgo I go out | Voy I go | Juego I play | Hago I do | Toco I play |
| Sales You go out | Vas You go | Juegas You play | Haces You do | Tocas You play |
| Sale He/she goes out | Va s/he goes | Juega He/she plays | Hace s/he does | Toca He/she plays |
| Salimos We go out | Vamos They go | Jugamos We play | Hacemos We do | Tocamos We play |
| Salen They go out | Van They go | Juegan They play | Hacen They do | Tocan They play |

| 3.1F ¿Qué haces en tu tiempo libre? | |
|---|--|
| A. Talking about free time B. Talking about your plans for the weekend C. Talking about eating out D. Talking about special occasion meals E. Extending what you can say about sport F. Talking about sport in the world | a veces sometimes bastante quite cada each, every cenar to have an evening meal charlar to chat el coro choir descansar to rest los dibujos animados cartoons el documental documentary el fin de semana weekend genial great las noticias news nunca never ocupado/a occupied, busy policíaco/a police, detective, crime (adj.) |
| 6 Key Words for this term | |
| 1. disfrutar 2. jugar 3. los deportes | 4. campeones 5. formentar 6. a selección |

| 3.1G ¿Qué te gusta hacer? | |
|---|--|
| aburrido/a boring bailar to dance cantar to sing el cine cinema de vez en cuando from time to time,occasionally entretenido/a entertaining estimulante challenging jugar to play (game, sport) leer to read libre free odiar to hate la película film practicar to practise salir to go out la tarde afternoon, evening el teclado keyboard tocar to touch, to play(an instrument) ver to see, watch | |

| 3.1H Hablando del tiempo libre y de los planes | |
|---|--|
| aburrido/a boring agradable pleasant al aire libre in the open air, outdoors la batería drums la canción song dar un paseo to go for a walk de vez en cuando from time to time, occasionally desafiante challenging divertido/a fun emocionante exciting | |

| 3.2G Comer y Beber | |
|--|--|
| el (fem.) agua (mineral) (mineral) water beber to drink el bocadillo sandwich la carne meat la cena evening meal cenar to have supper / to have an evening meal comer to eat la comida lunch, food, meal desayunar to have breakfast el desayuno breakfast después afterwards el helado ice cream el huevo egg el jamón ham la leche milk las legumbres pulses la mantequilla butter la manzana apple la mermelada jam, marmalade las patatas fritas chips, fries | |

| 3.2G Comer y Beber | |
|--|--|
| el perrito caliente hot dog el pescado fish el pollo chicken el postre dessert, pudding el queso cheese la sopa soup el té tea tomar to take, to have (food, drink) la tortilla omelette la tostada toast el vaso glass las verduras vegetables | |

| 3.2F Vamos a comer fuera | |
|--|--|
| el atún tuna el bacalao cod la barra loaf el bistec steak los calamares squid la cebolla onion el cerdo pork la cerveza beer los champiñones mushrooms el chorizo chorizo la chuleta chop el cordero lamb el filete fillet la fresa strawberry las gambas prawns el gazpacho chilled tomato soup los guisantes peas el jamón serrano cured ham las judías verdes green beans | |

| 3.3F ¿Qué deportes harás? | |
|---|--|
| el alpinismo rock climbing cansado/a tired la carrera race el concurso competition (contest) contestar to answer durante during el ejercicio exercise el entrenamiento training entrenar to train el equipo team el esquí skiing este, esta this ganar to win el jugador player mañana tomorrow el miembro member el partido match probar to try, to test | |

| 3.3G ¿Haces deporte? | |
|--|--|
| activo/a active al aire libre in the open air, outdoors ayudar to help el baloncesto basketball el campo countryside, playing field la cancha court los deberes homework la equitación horse riding el estadio stadium montar a caballo to ride a horse montar en bicicleta to ride a bike | |

| Key Verbs | | | | |
|-------------------------|-----------------|-----------------------|--------------------------------|-------------------|
| Salir _____ | Ir _____ | To play _____ | Hacer – to do/make _____ | Tocar _____ |
| _____ | Voy _____ | Juego I play | Hago _____ | _____ |
| I go out | _____ | _____ | _____ | I play |
| _____ | _____ | Juegas _____ | Haces You do | Tocas You play |
| You go out | You go | _____ | _____ | _____ |
| Sale He/she goes out | Va s/he goes | Juega He/she plays | _____ | _____ |
| _____ | _____ | _____ | s/he does | He/she plays |
| Salimos _____ | They go | Jugamos We play | Hacemos _____ | Tocamos _____ |
| _____ | _____ | _____ | _____ | _____ |
| Salen _____ | Van They go | They play | Hacen They do | They play |

| What we are learning this term: | |
|---|----------------|
| A. Talking about free time B. Talking about your plans for the weekend C. Talking about eating out D. Talking about special occasion meals E. Extending what you can say about sport F. Talking about sport in the world | |
| 6 Key Words for this term | |
| 1. disfrutar | 4. campeones |
| 2. jugar | 5. formentar |
| 3. los deportes | 6. a selección |

| 3.1G ¿Qué te gusta hacer? | |
|---------------------------|----------------------------------|
| aburrido/a | _____ |
| bailar | _____ |
| _____ | to sing |
| _____ | cinema |
| de vez en cuando | _____ |
| entretenido/a | _____ |
| _____ | challenging |
| _____ | to play (game, sport) |
| leer | _____ |
| libre | _____ |
| odiar | _____ |
| la película | _____ |
| _____ | to practise |
| salir | _____ |
| _____ | afternoon, evening |
| el teclado | _____ |
| _____ | to touch, to play(an instrument) |
| ver | _____ |

| 3.3G ¿Haces deporte? | |
|----------------------|----------------------|
| activo/a | _____ |
| _____ | in the open air, |
| outdoors | _____ |
| ayudar | _____ |
| el baloncesto | _____ |
| _____ | countryside, playing |
| field | _____ |
| la cancha | _____ |
| _____ | homework |
| la equitación | _____ |
| el estadio | _____ |
| _____ | to ride a horse |
| _____ | to ride a bike |

| 3.1F ¿Qué haces en tu tiempo libre? | |
|-------------------------------------|-------------------------|
| a veces | _____ |
| bastante | _____ |
| cada | _____ |
| _____ | to have an evening meal |
| _____ | to chat |
| _____ | choir |
| descansar | _____ |
| los dibujos animados | _____ |
| el documental | _____ |
| _____ | weekend |
| _____ | great |
| las noticias | _____ |
| nunca | _____ |
| ocupado/a | _____ |
| policiazo/a | _____ |
| _____ | to put |
| _____ | in general |
| _____ | always |
| el teatro | _____ |
| la telenovela | _____ |
| _____ | to finish |
| el tiempo | _____ |
| todo/a/os/as | _____ |
| _____ | silly, stupid |
| _____ | time, occasion |

| 3.2G Comer y Beber | |
|--------------------------|--------------------------|
| el (fem.) agua (mineral) | _____ |
| beber | _____ |
| _____ | sandwich |
| la carne | _____ |
| _____ | evening meal |
| _____ | to have supper / to have |
| an evening meal | _____ |
| comer | _____ |
| la comida | _____ |
| desayunar | _____ |
| _____ | breakfast |
| _____ | afterwards |
| _____ | ice cream |
| el huevo | _____ |
| el jamón | _____ |
| la leche | _____ |
| las legumbres | _____ |
| _____ | butter |
| _____ | apple |
| la mermelada | _____ |
| _____ | chips, fries |

| 3.2G Comer y Beber | |
|---------------------|-------------------------|
| el perrito caliente | _____ |
| el pescado | _____ |
| el pollo | _____ |
| _____ | dessert, pudding |
| _____ | cheese |
| _____ | soup |
| el té | _____ |
| _____ | to take, to have (food, |
| drink) | _____ |
| la tortilla | _____ |
| la tostada | _____ |
| el vaso | _____ |
| _____ | vegetables |

| 3.2F Vamos a comer fuera | |
|--------------------------|-------------|
| el atún | _____ |
| el bacalao | _____ |
| _____ | loaf |
| _____ | steak |
| los calamares | _____ |
| la cebolla | _____ |
| el cerdo | _____ |
| _____ | beer |
| _____ | mushrooms |
| el chorizo | _____ |
| la chuleta | _____ |
| _____ | lamb |
| el filete | _____ |
| _____ | strawberry |
| _____ | prawns |
| el gazpacho | _____ |
| los guisantes | _____ |
| _____ | cured ham |
| _____ | green beans |

| 3.1H Hablando del tiempo libre y de los planes | |
|--|--------------------|
| aburrido/a | _____ |
| agradable | _____ |
| al aire libre | in the open air, |
| outdoors | _____ |
| la batería | _____ |
| la canción | _____ |
| _____ | to go for a walk |
| de vez en cuando | from time to time, |
| occasionally | _____ |
| desafiante | _____ |
| divertido/a | _____ |
| _____ | exciting |

| 3.3F ¿Qué deportes harás? | |
|---------------------------|-----------------|
| el alpinismo | _____ |
| cansado/a | _____ |
| la carrera | _____ |
| el concurso | _____ (contest) |
| contestar | _____ |
| _____ | during |
| _____ | exercise |
| _____ | training |
| entrenar | _____ |
| el equipo | _____ |
| el esquí | _____ |
| este, esta | _____ |
| _____ | to win |
| _____ | player |
| _____ | tomorrow |
| el miembro | _____ |
| el partido | _____ |
| _____ | to try, to test |



GCSE Unit 3 SPANISH Knowledge organiser. Topic Free Time Activities



| Translation Practice. G – blue F – orange H - Green | |
|---|--|
| No me gusta _____ | I don't like going shopping |
| Me encanta _____ con mis amigos | I love going out with my friends |
| Me _____ escuchar música | I love listening to music |
| No me gusta _____ | I don't like dancing |
| Si tengo _____ | If I have the time |
| Hago _____ de música | I do music classes |
| De vez en cuando _____ una novela | From time to time, I read a novel |
| Siempre _____ la guitarra con la banda | I always play the guitar with the group |
| A veces _____ a algún concierto | Sometimes I go to some concert |
| El fin de semana _____ juego al fútbol | On the weekend I always play football |
| Siempre _____ muy preocupada | I am always busy |
| Generalmente _____ música por las tardes | Generally I listen to music in the evenings |
| Me _____ jugar a los videojuegos | Playing video games interests me |
| Ella quiere patina en la pista de _____ | She wants to skate on the ice rink |
| _____ al gimnasio | I will come to the gym |
| _____ if there is a match? | Will you know if there's a match? |
| _____ el ciclismo | I will try cycling |
| Fue una buena _____ | It was a good party |
| No quiero _____ | I don't want to participate |

| Key Questions: Answer the following in your own words. Use these model answers | |
|---|---|
| ¿Qué haces en tu tiempo libre? Frecuencia? Opiniones? | -Normalmente juego al futbol todos los días después del colegio. Lo que me encanta es jugar al futbol con mis amigos porque es bueno para la salud y es emocionante y relajante jugar contra tus amigos. De vez en cuando juego con videojuegos pero ayer hice ciclismo, hice mis deberes y toque mi guitarra. Ayer, fui al colegio durante el día. Después del colegio fui al polideportivo con mis amigos y jugué/jugamos al baloncesto juntos. Ayer por la mañana fui de compras en el centro de la ciudad con mi madre y fuimos a las tiendas de ropa. Lo que me encantó/gustó fue que ví una película entretenido por la noche/ fue que jugué mi deporte favorito y podía entrenarme. Todos los días juego al futbol y al baloncesto, que son mis deportes favoritos. De vez en cuando hago ciclismo y practico el atletismo pero son muy estresantes, duros y no son relajantes. Lo que me encanta es jugar al fútbol en mi equipo los fines de semana. |
| ¿Te gusta ver la televisión? Qué has visto en la televisión recientemente?Tienes unprograma favorito? | Si, me gusta ver la televisión, me gustan los programas de horror, de tele-realidad, los documentales y de deporte. Lo que me encanta es ver los dibujos-animados porque son más entretenidos que las noticias. Ayer ví las noticias con mis padres. Mi programa favorito es ... porque es |
| ¿Qué es tu película favorita? Qué película has visto recientemente en el cine? | Mi película favorita es ... porque me encantan las películas de acción/tiene mucha violencia/tiene buenos actores/es muy romántica/me encanta la historia/tiene buenos efectos especiales. |
| ¿Cuando se cena en Inglaterra y en España? ¿Cuándo prefieres cenar o almorzar? | Normalmente se cena en Inglaterra a las seis, como mi almuerzo a las dos, como mi desayuno a las ocho. |
| Describe una cena especial | Recientemente fui a un restaurante con mi familia para celebrar el cumpleaños de mi abuelo. Fuimos a un restaurante chino porque es la comida favorita de mi abuela. Primero, comí .. y bebí. Para el postre comí y bebí . Lo que me gustó fue la buena comida/ver a y hablar con toda mi familia. Fue muy emocionante. |

| Key Grammar | |
|--|---|
| Forming the preterite (past tense). Always remove the –AR, -ER, -IR endings first | Remember the preterite (past) tense endings for –AR, -ER, -IR verbs. They are: -AR: -é, -aste,-ó, -amos, -astéis, -aron -ER: -í, -íste, -ió, -imos, -istéis, -ieron -IR : -í, -iste, -ió, -imos, -istéis, -ieron |
| Forming the future tense ('will') | Future Tense ('will...') All verb groups: -é, -ás, -á, -emos, -éis, -án |
| Imperfect Tense (Past, ongoing actions, descriptions, 'used to' or 'was doing') | -ar -aba, -abas, -aba, -ábamos, -abais, -aban -er and -ir -ía, -ías, -ía, -íamos, -íais, -ían |

39. Stakeholder

Stakeholders are the people or groups with an interest in the success or failure of an organisation.

Types of stakeholders & their typical objectives:**Business owners & shareholders**

Interested in the business being successful and making a profit.

Staff/managers

Interested in having job security, career development, fair wages etc.

Customers

Interested in getting an honest and fair deal from a business.

Local Community

Interested in honest and fair dealing/co-operation with the organisation with regards to local employment and environment.

Local Government

Interested in employment plans, location plans and business ability to pay tax.

Pressure Groups

Interested in fair and ethically correct business practices.

42. Retail Legislation

| | |
|-----------------------------------|--|
| Legislation | Law's passed by acts of parliament. Too many rules that impact on a business from operating as the owner would like are known as " Red Tape ". |
| Consumer Rights Act 2015 | <ul style="list-style-type: none"> • Goods must be fit for purpose and free from defects. • The buyer has the right to get their money back or have their product repaired at the seller's expense. • Any issues are to be dealt with by the seller and not the manufacturer. |
| Trade Descriptions Act | <ul style="list-style-type: none"> • Trader's can not use false or misleading statements. • Labels must not be misleading. |
| Other acts of legislation: | Consumer credit act 1974, The weights and measures act 1985, The food safety act 1990. |

40. Types of technology used in business

Technology is used in different aspects of business:

E-commerce: Allows businesses to sell their products online and reach a wider audience of potential customers with lower costs.

Social Media: Allows a business to communicate and interact directly with customers.

Digital Communication: E-mail allows customers to contact a business personally and directly.

Payment Systems: Online payment systems (eg. Paypal) allow all types of businesses to access their payments fast and easily.

41. How does technology influence business activity?

Sales can increase as a result of e-commerce because customers can access products or services 24 hours a day, 7 days a week. New technology drives innovation to create new products or services and this can increase sales of new products.

Costs can be reduced through advertising online through websites, e-mail newsletters, and via social media. Costs can also be reduced through manufacturing efficiency and being able to find the best deal on raw materials online.

The 4 P's are affected by different types of technology.

Product = New technologically advanced product or a new method of production.

Promotion = Digital marketing can improve the effectiveness of marketing and is cheap.

Place = Products can be sold online and can be accessed by customers worldwide.

43. Recruitment Legislation

Employees are protected from being exploited in the work place.

| | |
|---------------------------|---|
| Equality Act 2010 | Organisations must consider all job applicants equally <u>in regards to</u> gender, age, skin colour etc. |
| Equal Pay Act 1970 | Organisations must pay workers fairly and can not discriminate <u>in regards to</u> gender, age or skin colour etc. |

44. The Economy

The economy is the collection of business transactions that take place throughout the country, throughout the year.

| | |
|------------------------|--|
| Interest rates. | The amount that a lender charges per year to someone who has borrowed money. This is measured as a percentage. |
| Exchange rates | The value of the pound (£) measured by how much foreign currency can be bought per pound (£). |
| Recession | A downturn in sales and output throughout the economy, often leading to rising unemployment. |
| Inflation | The rate in which prices are rising from the same time last year. |

39. Stakeholder

Types of stakeholders & their typical objectives:

Business owners & shareholders

Staff/managers

Customers

Local Community

Local Government

Pressure Groups

40. Types of technology used in business

Technology is used in different aspects of business:

E-commerce:

Social Media:

Digital Communication:

Payment Systems:

41. How does technology influence business activity?**42. Retail Legislation**

Legislation

Consumer Rights
Act 2015Trade
Descriptions ActOther acts of
legislation:**43. Recruitment Legislation**Employees are protected from being exploited in the work place.Equality
Act 2010Equal Pay
Act 1970**44. The Economy**

The economy is the collection of business transactions that take place throughout the country, throughout the year.

Interest
rates.Exchange
rates

Recession

Inflation

Hardware and Software**Hardware:**

The physical, electrical/mechanical parts of a computer. This consists of internal components such as the CPU and graphics card, and additional hardware which allows the users to communicate with the system through input and output devices, such as a monitor and a keyboard.

Externally attached hardware are known as peripherals.

Software:

The programs, data and applications in a computer system. Any parts of a computer system that aren't physical.

Software can be classified as either application or system software.

Application – Programs which perform specific end-user tasks. E.g. web browser, spreadsheet, games.

System – Programs which help to run or maintain the computer system.

System Software:**Operating Systems -**

Manages processes.

Manages memory.

Manages I/O (input/output) devices.

Manages applications.

Manages security (access levels, user accounts)

Controls hardware components.

Provides a platform for software to run on.

Provides a user interface.

Utility Programs -

Programs which help to maintain or manage the computer system. E.g. Disk Defragmenters, Antivirus, Compression, Encryption, Registry Cleaners, Driver Updaters,

Translators -

Translate source code from a high-level language or assembly code into machine code (binary). There are three types, Compilers, Interpreters and Assemblers.

Compilers – Does the translation all at once and creates an exe file containing the machine code.

Interpreters – Does the translation line by line.

Assembler – Converts assembly code.

Boolean Logic Gates**AND Gate.**

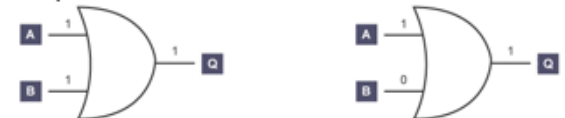
Both inputs need to be true for the output to be true.



| Input A | Input B | Output Q |
|---------|---------|----------|
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

OR Gate.

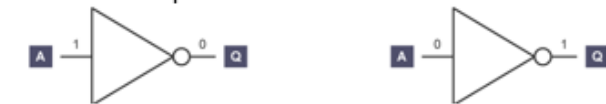
Either of the two inputs needs to be true for the output to be true.



| Input A | Input B | Output Q |
|---------|---------|----------|
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

NOT Gate.

Inverts the input.



| Input A | Output Q |
|---------|----------|
| 1 | 0 |
| 0 | 1 |

CPU Components

Control Unit (CU) – fetches, decodes and executes instructions. Sends control signals to the system and peripherals. Moves data around the system.

Arithmetic Logic Unit (ALU) – performs arithmetic and logical operations. Acts as a gateway between primary memory and secondary storage.

Cache – Small amount of high-speed memory to store frequently used data and instructions.

Clock – Synchronises all computer's components by sending out regular electrical pulses. The more pulses per second, the more calculations and operations can be performed. This is measured in Hz.

Buses – Collections of parallel wires for high speed internal communication within the CPU.

Address Bus – Carries memory addresses.

Data Bus – Carries data between components.

Control Bus – Carries control signals.

Registers – Small amounts of high-speed memory within the CPU. Special purpose ones listed below.

Program Counter – Holds the memory address of the next instruction.

Memory Address Register – Holds the address of the current instruction.

Memory Buffer/Data Register – Holds the data that is either being retrieved or stored.

Current Instruction Register – Holds the current instruction which needs to be decoded and executed.

Accumulator – Holds the result of calculations from the ALU.

Fetch-Decode-Execute Cycle

1. The memory address held in the program counter is copied into the MAR.
2. The address in the program counter is then incremented (increased by 1) so it now holds the address of the next instruction to be fetched.
3. The processor sends a signal along the address bus to the memory address held in the MAR.
4. The instruction/data in that memory address is carried by the data bus to the MBR/MDR.
5. The instruction/data in the MBR/MDR is copied to the CIR.
6. The instruction/data in the CIR is decoded and executed. Results of processing are stored in the ACC.
7. The cycle then returns to step one.

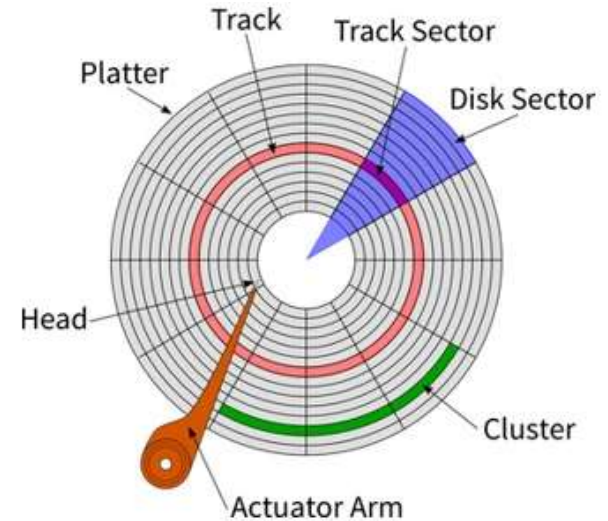
Secondary Storage

Secondary Storage is long-term, non-volatile storage. Without secondary storage, all programs and data would be lost when the computer is turned off.

Magnetic

Hard disks spin.

Actuator arm moves a read/write head over the disk to access parts of it. The head can detect the magnetisation of the disk and either magnetise (1's) or demagnetise (0's) parts of it.



Optical

Optical disk spins and has a spiral track.

Laser head is moved over the disk and shines the laser down onto it.

Disk has pits (scatters light 0's) and lands (reflects light 1's).

Writeable disks have photosensitive dye which is burned to represent 1's and 0's.

Solid State

A collection of semiconductor chips which can be accessed and written to extremely quickly.

No moving parts, so they are more reliable than disks.

Macronutrients, fibre and water- Term 6

Alcohol

Alcohol is not considered a nutrient, but is a source of energy in the diet.
The government recommends no more than 14 units of alcohol per week for both men and women.

Macronutrients

Macronutrients provide energy. The macronutrients are:

- carbohydrate;
- protein;
- fat.

Macronutrients are measured in grams (g).

Energy from food

- Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with Calories (kcal).
- Different macronutrients, and alcohol, provide different amounts of energy.

Protein complementation

Different food contains different amounts and combinations of amino acids.
Vegans and vegetarians can get all the amino acids they need by combining different protein types at the same meal. This is known as protein complementation.
Examples are:

- rice and peas;
- beans on toast;
- hummus and pitta bread;
- bean chilli served with rice.

Fibre

- Dietary fibre is a type of carbohydrate found in plant foods.
 - Food examples include wholegrain cereals and cereal products; oats; beans; lentils; fruit; vegetables; nuts; and, seeds.
- Dietary fibre helps to:
- reduce the risk of heart disease, diabetes and some cancers;
 - help weight control;
 - bulk up stools;
 - prevent constipation;
 - improve gut health.

Protein

- Made up of building blocks called amino acids.
 - There are 20 amino acids found in protein.
 - Eight amino acids have to be provided by the diet (called essential amino acids).
- The essential amino acids (EAAs) are isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophan and valine. In young children, additional amino acids, e.g. histidine and tyrosine, are sometimes considered to be essential (or 'conditionally essential') because they may be unable to make enough to meet their needs.

Recommendations

- 0.75g/kg bodyweight/day in adults.

Sources:

Animal sources: meat; poultry; fish; eggs; milk; dairy food.

Plant sources: soya; nuts; seeds; pulses, e.g. beans, lentils; mycoprotein.

In young children, additional amino acids, e.g. histidine and tyrosine, are sometimes considered to be essential (or 'conditionally essential') because they may be unable to make enough to meet their needs.

Carbohydrate

All types of carbohydrate are compounds of carbon, hydrogen and oxygen. They can be divided into three main groups according to the size of the molecule. These three types are:

- monosaccharides (e.g. glucose);
- disaccharides (e.g. lactose);
- polysaccharide (e.g. sucrose).

The two types main of carbohydrate that provide dietary energy are starch and sugars. Dietary fibre is also a type of carbohydrate.

Starchy carbohydrate is an important source of energy.

Starchy foods - we should be choosing wholegrain versions of starchy foods where possible.

Recommendations

- Total carbohydrate - around 50% of daily food energy.
- Free sugars include all sugars added to foods plus sugars naturally present in honey, syrups and unsweetened fruit juice (<5% daily food energy).
- Fibre is a term used for plant-based carbohydrates that are not digested in the small intestine (30g/day for adults).

Key terms

Dietary reference values:

Estimated dietary requirements for particular groups of the population.

Essential amino acids: 8 of the different amino acids found in proteins from plants and animals that have to be provided by the diet.

Macronutrients: Nutrients needed to provide energy and as the building blocks for growth and maintenance of the body.

Protein complementation: Combining different protein types at the same meal to ensure all EAAs are ingested.

Reference Intakes: Guidelines for the maximum amount of nutrients consumed.

Dietary reference values (DRVs) are a series

of estimates of the energy and nutritional requirements of different groups of healthy people in the UK population. They are not recommendations or goals for individuals.

Reference Intakes are guidelines for the maximum amount of energy (calories), fat, saturated fat, sugars and salt consumed in a day (based on a healthy adult female).

Fat

Sources of fat include:

- saturated fat;
- monounsaturated fat;
- polyunsaturated fat.

Fats can be saturated, when they have no double bonds, monounsaturated, when they have one double bond, or polyunsaturated, when they have more than one double bond.

Recommendations

- <35% energy, Saturated fat <11% energy.

A high saturated fat intake is linked with high blood cholesterol levels.

Sources:

Saturated fat: fatty cuts of meat; skin of poultry; butter; hard cheese; biscuits, cakes and pastries; chocolate.

Monounsaturated fat: edible oils especially olive oil; avocados; nuts.

Polyunsaturated fatty acids: edible oils especially sunflower oil; seeds; margarine; spreadable fats made from vegetable oils and oily fish.

Hydration

- Aim to drink 6-8 glasses of fluid every day.
 - Water, lower fat milk and sugar-free drinks including tea and coffee all count.
 - Fruit juice and smoothies also count but should be limited to no more than a combined total of 150ml per day.
- 20% of water is provided by food such as soups, yogurts, fruit and vegetables.
The other 80% is provided by drinks such as water, milk and juice.
Drinking too much water can lead to 'water intoxication' with potentially life threatening hyponatraemia.
This is caused when the concentration of sodium in the blood gets too low.



Macronutrients, fibre and water- Term 6

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This is caused when the concentration of sodium in the blood gets too low.



Name:

Date:

Good food hygiene and safety practices



Good food hygiene practices are necessary in order to produce, make and supply food that is safe to eat. This involves more than just being clean. A simple way to remember is the 4Cs:

- cleaning;
- cooking;
- chilling;
- cross-contamination.



Cleaning

Cleaning the kitchen is important to keep food safe and prevent bacteria from spreading. 'Clean as you go' means people make sure that they clean the area and utensils they have been working in or with, as they prepare food. This avoids build-up of mess and leads to better hygienic conditions. Areas which need particular attention are:

- surfaces that come into contact with food, e.g. chopping boards, utensils;
- surfaces that come into contact with hands, e.g. cupboard and fridge doors.

Cleaning – personal hygiene and getting ready to cook

Good personal hygiene is essential to reduce the risk of food poisoning.

- **Hands:** Thoroughly wash and dry hands before and after touching food and regularly throughout cooking.
- **Clothing:** Clean clothing should be worn. Long sleeves should be rolled up and a clean apron or chef's jacket worn over outside clothes. Enclosed, non-slip, shoes should be worn in the kitchen.
- **Jewellery:** All jewellery, including a watch, should be removed (piercings should be covered if they cannot be removed).
- **Skin:** Cuts and wounds should be covered with a coloured, waterproof dressing. The plasters are often blue in colour so they can be easily identified if they fall into food.
- **Face:** Do not cough or spit near or over food, taste food with fingers, bite nails, eat, chew or smoke, touch nose, or remove earrings.

For more information, go to:
<https://bit.ly/3nE9fpE>

Cooking

To reduce the risk of food poisoning, hot food must be served steaming hot, that is above 63°C.

- Bacteria will begin to die when the temperature rises above 60°C.
- Some foods change colour when they are cooked.
- Cooking food thoroughly to a minimum core temperature of 75°C will ensure most bacteria is destroyed.
- When cooking burgers, sausages, portions of pork and chicken, there should be no pink meat. They should also be steaming hot inside and the juices should run clear when cooked.
- Steak or other cuts of beef or lamb can be eaten less well done as long as they have been properly sealed. Sealing the meat will kill any bacteria on the outside.
- Leftovers should be cooled as quickly as possible within two hours and then stored in the fridge below 5°C. When leftovers are re-heated, they need to be steaming hot. Leftovers should not be re-heated more than once and should be used within 48 hours from when it was made (24 hours for rice dishes).

Chilling

The temperature between 5°C– 63°C is known as the 'danger-zone'. Bacteria will multiply most rapidly within this temperature range. Reducing the temperature below 5°C slows the reproduction of microorganisms. Cold temperatures do not kill bacteria.

High-risk food, such as meat, fish and dairy products plus opened bottles, jars or tubes, should be stored below 5°C. Eggs should be stored in a cool, dry place. Ideally, eggs should be stored in the fridge.

Cross-contamination

The process by which bacteria are transferred from one area to another is known as **cross-contamination**. The main carriers of bacteria and causes of cross contamination are:

- humans;
- rubbish;
- pests and other animals;
- food, e.g. raw meat or poultry.

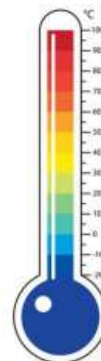
Cross contamination – raw meat

- Keep raw meat separate from ready-to-eat food.
- Do not let raw meat drip onto other food.
- Never use the same chopping board for raw meat and ready-to-eat food without washing the board (and knife) thoroughly in between. Ideally use a red board.
- Do not wash meat before cooking it.

Temperatures to remember

To reduce the risk of food poisoning, good temperature control is vital:

- 5-63°C – the danger zone where bacteria grow most readily.
- 37°C – body temperature, optimum temperature for bacterial growth.
- 8°C – maximum legal temperature for cold food, i.e. your fridge.
- 5°C (or below) – the ideal temperature your fridge should be.
- 75°C – if cooking food, the core temperature, middle or thickest part should reach at least this temperature.
- 75°C – if reheating food, it should reach at least this temperature. In Scotland food should reach at least 82°C.



Safe use of a food probe

Digital probes can be used to check the temperature of food. To use a food probe:

- clean with a disinfectant wipe before and after use;
- insert the probe into the core (centre) or the thickest part of the food;
- do not touch the bottom of the pan or cooking dish.

Food labelling

Food labels help consumers make healthier choices. Some information also helps to reduce the risk of food poisoning or other adverse reactions to food:

- date marks;
- list of ingredients with allergens in **bold**, **highlighted**, **underlined** or in *italics*;
- storage and preparation conditions.

Tasks

1. Write a detailed explanation of the 4Cs, demonstrating how they can help to reduce the risk of food poisoning.
2. Explain, giving detailed reasons, the food hygiene controls when buying, preparing, cooking and serving fresh poultry.

Key terms

Best-before-date: Relates to the quality of the food. Food may still be eaten beyond this date.

Cross-contamination: The transfer of bacteria from one source to another. Usually raw food to ready-to-eat food but can also be the transfer of bacteria from unclean hands, equipment, cloths or pests. Can also relate to allergens.

Danger zone: Bacteria will multiply most rapidly between 5-63°C.

Optimum temperature: Bacteria that cause food poisoning reproduce around body temperature (37°C).

The 4Cs: Cleaning, cooking, chilling and cross-contamination.

Use-by-date: Relates to the safety of the food. Food must be eaten by this date.

Use-by-date

You have until the end of this date to use or freeze the food before it comes too risky to eat.

USE BY:

25/08/20

KEEP REFRIGERATED

Best-before-date

You can eat food past this date but it might not be at its best quality.

BEST BEFORE:

25/08/21

STORE IN A COOL DRY PLACE

Year 10 Cambridge National- Leadership- Term 6



| What we are learning this term: | |
|---------------------------------|--|
| A. | Different leadership roles |
| B. | Role-related responsibilities |
| C. | Personal qualities |
| D. | Leadership styles |
| E. | Key considerations when planning sports activity |

| Main assessment objectives |
|--|
| Learning outcome: Know the personal qualities, styles, roles and responsibilities associated with effective sports leadership. Be able to plan sports activity sessions. |



| Can you give examples of managers from different sports? |
|--|
| Gareth Southgate Eddie Jones |

| Role models |
|--|
| <div>Positive</div> <div>Mo Farah Nicole Adams</div> <div>Negative</div> <div>Luis Suarez Nick Kyrgios</div> |



| A. | The different leadership roles within sport |
|-------------------|---|
| Role | Definition |
| Coach | A person involved in the direction, instruction and training of the operations of a sports team |
| Manager | Responsible for handling the business matters of athletes and sports teams |
| Captain | The leader of the team who is usually also a player |
| Teacher | A person who teaches, especially in a school |
| Expedition leader | Someone who leads groups on adventurous activities |
| Role model | A person looked to by others as an example |

| A. | Role related responsibilities |
|----|---|
| | Knowledge of activity Enthusiasm for activity Knowledge of safety Knowledge of child protection issues Knowledge of basic first aid |

| G. | Considerations when planning sports activities |
|-----------------|--|
| Session content | Objectives for the session appropriate venue Equipment needs Supervision needs Timing of activities Introduction/conclusion of session Basic warm up/cool down Skills and technique development Engaging Organisation |



| Personal qualities |
|---|
| Reliability Punctuality Confidence Communication Creativity |



| | |
|--------|---|
| Safety | Risk assessments- facilities, equipment/clothing checks, activity-specific risks Corrective action- wiping up puddles, removing litter, reporting faulty equipment Emergency procedures- procedures in the event of an accident, procedures in the event of other emergencies, summoning qualified help, completion of relevant documents |
|--------|---|

| Key sections |
|--|
| Different leadership roles and opportunities |

| | |
|---------------------------------------|----------------------------------|
| Captain Coach Expedition leader | Manager Teacher Role model |
|---------------------------------------|----------------------------------|

| Role related responsibilities |
|-------------------------------|
|-------------------------------|

| | |
|--|-------------------------|
| Knowledge of; Activity Safety Child protection Basic first aid | Enthusiasm for activity |
|--|-------------------------|

| Personal qualities |
|--------------------|
|--------------------|

| |
|---|
| Reliability Punctuality Communication Confidence Creativity |
|---|

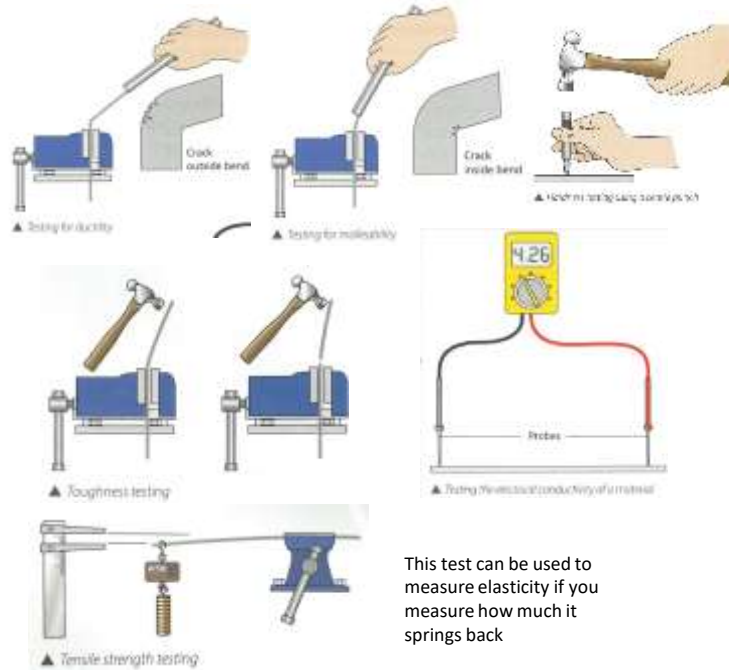


| Leadership styles |
|-------------------|
|-------------------|

| |
|---|
| Autocratic Democratic Laissez-faire |
|---|



| Materials and properties | |
|--------------------------|---|
| Strength | Ability of a material to withstand compression, tension, torsion, bending, and shear. |
| Hardness | Ability to withstand abrasion and wear and tear. |
| Toughness | Materials that can withstand impact, or are hard to break or snap are tough & can absorb shock. |
| Malleability | Being able to bend or shape easily would make a material easily malleable |
| Ductility | Materials that can be stretched along their length are ductile |
| Elasticity | Ability to be stretched and then return to its original shape |



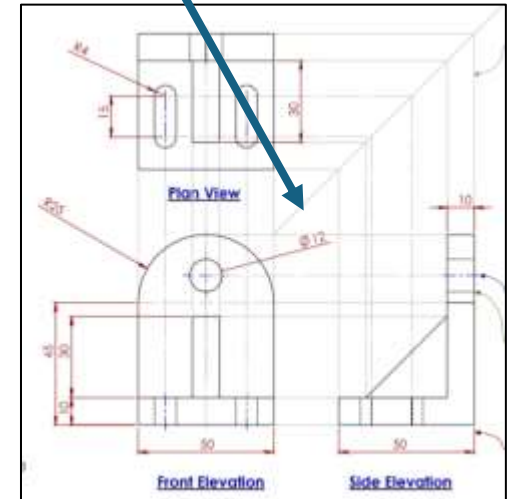
This test can be used to measure elasticity if you measure how much it springs back

Technical drawing questions

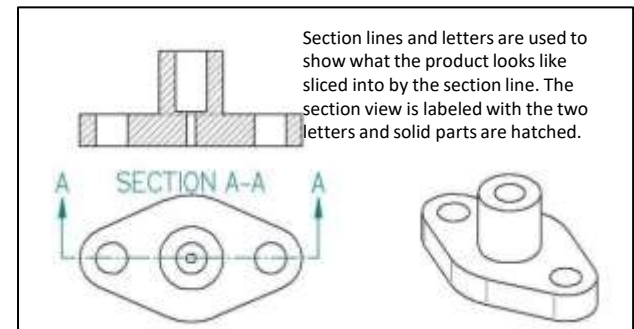
Always use pencil and ruler.
Always draw faint guide lines first.

If you are asked to draw isometric, they will give you isometric grid paper. Follow the lines on the grid paper.


Use a 45 degree line to bounce the guidelines from the top view to the side view



| | Common exam question types |
|--|---|
| Identify which tool/ process/ property is needed | Consider the context of the question and underline the key information. If you are stuck on a tool/process question, think back to what we have used in the workshop. State your answer in a few words. |
| Analyze / evaluate products | Read the context, is it asking you for the pros and cons of the product or to explain how it is constructed? Underline the key words. Key areas to analyse are; structural features, mechanical features, electrical features, material choices, mechanical properties. |
| Compare / contrast products | Read the context, are they asking you to talk about just the pros and cons or are they talking about how one product is a development of the other? Key points: engineers now have a better range of materials to choose from, electronic components are now smaller and more powerful, modern products can be less durable and recyclable, modern designers can use CAD/CAM. |
| "Describe using notes and sketches" question | Read the question and underline what process they are asking you to describe. What would be reasonable for an engineer to do in that situation? 1. Break your process down into stages – 1.2.3 etc. For example, Stage 1. Place metal in vice 2. Draw quick diagrams of each step with annotations to show meaning 3. Make a list of the equipment needed for the process |



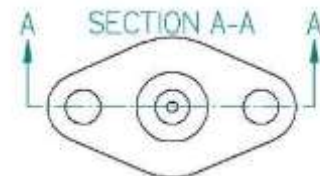
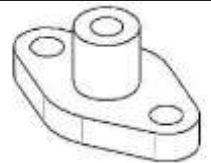
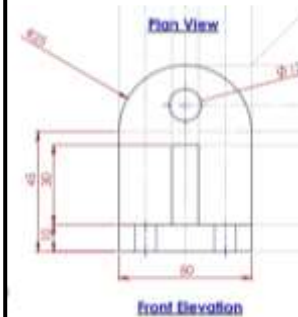


| Materials and properties  | |
|--|--|
| Strength | |
| Hardness | |
| Toughness | |
| Malleability | |
| Ductility | |
| Elasticity | |

Describe using **notes and sketches** the process of testing a tennis racket for elasticity in a school workshop. [6]

Technical drawing questions

1. Complete the orthographic drawing, showing how you used guidelines.
2. Draw the section view



| Practice question | Answer |
|--|--------|
| Identify which material properties are most needed for a car tire. | |
| Developments in technology over recent years have had an impact on society. Discuss the advantages and disadvantages of using an electric car | |
| Below are images of a modern cordless drill and an older mains operated drill. Describe how modern technology has made the modern cordless drill safer to use. | |





Year 10 PRODUCT DESIGN Term 6



What we are learning this term:

- | | | |
|---------------------|------------------------|-----------------------|
| A. Modern Materials | C. Polymers | E. Technical Textiles |
| B. Smart Materials | D. Composite Materials | F. Textiles |

A. Modern Materials

A modern material is a material that has been engineered to have improved properties.

| Type | Properties | Common Uses |
|-------------|---|--|
| Graphene | Transparent. Very strong and light | Protective equipment and clothing |
| Metal Foams | Lightweight. Strong under compression. Absorbs energy well. | Prosthetics. Soundproofing and crash protection. |
| Titanium | High strength-to-weight ratio. Corrosion resistant. | Prosthetics. Aircraft and spacecraft. |

B. Smart Materials

Materials that exhibit a physical change in response to some external stimuli and change back once that stimuli has been removed.

| | |
|---|--|
| Shape-memory alloys (SMA) – spectacle frames | Thermochromic pigments – colour changing spoons |
| Photochromic pigments - colour changing lenses and windows | Self-healing materials – metals that resist corrosion, concrete that can heal cracks |
| Ferrofluids formed by magnetic field – hydraulic suspension pistons | Polymorph – modelling and ergonomic handles |

C. Polymers – come from crude oil

Thermoforming can be heated and formed repeatedly, thermosetting can only be formed once

| Thermoforming (pliable, recyclable) | Thermosetting (good insulators) |
|-------------------------------------|---|
| Acrylic (PMMA) | Epoxy resin (ER) |
| High impact polystyrene (HIPS) | Melamine formaldehyde (MF) |
| High density polythene (HDPE) | Phenol formaldehyde (PF) |
| Polypropylene (PP) | Polyester resin (PR) |
| Polyvinyl chloride (PVC) | Urea formaldehyde (UF) |
| Polyethylene terephthalate (PET) | These are resistant to heat and chemicals |

D. Composite Materials

A composite material is a mixture of two or more materials to enhance properties.

| Fibre-based | Materials | Common Uses |
|---------------------------------|----------------------------|---|
| Glass-reinforced plastic (GRP) | Glass fibres and resin | Boats, instrument cases |
| Carbon-reinforced plastic (CRP) | Carbon fibres and resin | Formula 1 car bodies, crash helmets, sports equipment |
| Glass-reinforced concrete (GRC) | Glass fibres and concrete | Street furniture, urban features. |
| Particle-based | Materials | Common Uses |
| Concrete | Cement, sand and aggregate | Buildings, street furniture |
| Cement | Ceramic and metal | Electronic components |

Sheet-based composite materials – look back to Term 4 – Manufactured Boards

| | | |
|---------------------------------|---------|-----------|
| Medium Density Fibreboard (MDF) | Plywood | Chipboard |
|---------------------------------|---------|-----------|

E. Technical Textiles

Modern textiles can be engineered to have numerous properties.

| | | |
|--|--|--|
| Conductive Fabrics – touch screen gloves | Fire-retardant fabrics – furniture, furnishings, firefighter clothing. | |
| Kevlar – racing tyres and bullet proof vests | Microfibres – winter clothes and cleaning cloths | Microencapsulation – sports clothing and scratch and sniff perfume samples |

F. Textiles

Textile materials can be found natural or can be formed synthetically

| Natural – come from plants or animals | Synthetic – come from coal or oil |
|---------------------------------------|-----------------------------------|
| Cotton (plant) | Polyester |
| Wool (animal) | Polyamide (nylon) |
| Silk (animal) | Elastane |

Blended – a mixture of fibres that combines and improves properties

| | | |
|------------|--------|----------|
| Polycotton | Kevlar | Sympatex |
|------------|--------|----------|



Year 10 PRODUCT DESIGN Term 6



What we are learning this term:

- A. Modern Materials C. Polymers E. Technical Textiles
B. Smart Materials D. Composite Materials F. Textiles

A. Modern Materials

A modern material is a material that has been engineered to have improved properties.

| Type | Properties | Common Uses |
|-------------|------------|-------------|
| Graphene | | |
| Metal Foams | | |
| Titanium | | |

B. Smart Materials

Materials that exhibit a physical change in response to some external stimuli and change back once that stimuli has been removed.

| | |
|--|--|
| | |
| | |
| | |

C. Polymers – come from crude oil

Thermoforming can be heated and formed repeatedly, thermosetting can only be formed once

| Thermoforming (pliable, recyclable) | Thermosetting (good insulators) |
|-------------------------------------|---------------------------------|
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D. Composite Materials

A composite material is a mixture of two or more materials to enhance properties.

| Fibre-based | Materials | Common Uses |
|---|-----------|-------------|
| | | |
| | | |
| | | |
| Particle-based | Materials | Common Uses |
| | | |
| | | |
| Sheet-based composite materials – look back to Term 4 – Manufactured Boards | | |
| | | |

E. Technical Textiles





Modern textiles can be engineered to have numerous properties.

| | |
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| | |





F. Textiles






Textile materials can be found natural or can be formed synthetically






| Natural – come from plants or animals | Synthetic – come from coal or oil |
|---|-----------------------------------|
| | |
| | |
| | |
| Blended – a mixture of fibres that combines and improves properties | |
| | |

| What we are learning this term: | | B | | | C | |
|---|--|--------------------------------|------------------|---|---|---|
| A. Key words B. What are the main life stages C. What are the 4 areas of growth and development (PIES)? D. How do Humans develop physically (P)? | | What are the main life stages? | | | What are the 4 areas of growth and development (PIES)? | |
| A. | Key words for this Unit | Age Group | Life Stage | Developmental Characteristics and Progress | Physical Development (P) | P = growth patterns and changes in the mobility of the large and small muscles in the body that happen throughout life. |
| Characteristics | Something that is typical of people at a particular life stage. | 0-2 years | Infancy | Sill dependent on parents but growing quickly and developing physical skills. |  | |
| Life stages | Distinct phases of life that each person passes through. | 3-8 years | Early Childhood | Becoming increasingly independent, improving thought processes and learning how to develop friendships. | Intellectual Development (I) | I = how people develop their thinking skills, memory and language. |
| Growth | Increased body size such as height, weight. | 9-18 years | Adolescence | Experiencing puberty, which bring physical and emotional changes. |  | |
| Development | Involves gaining new skills and abilities such as riding a bike. | 19-45 years | Early Adulthood | Leaving home, making own choices about a career and may start a family. | Emotional Development (E) | E = how people develop their identity and cope with feelings. |
| Gross motor development (G) | Refers to the development of large muscles in the body e.g. Legs | 46-65 years | Middle Adulthood | Having more time to travel and take up hobbies as children may be leaving home; beginning of the aging process. |  | |
| Fine motor development (F) | Refers to the development of small muscles in the body e.g. Fingers | 65+ years | Later Adulthood | The aging process continues, which may affect memory and mobility. | Social Development (S) | S = describes how people develop friendships and relationships. |
| Language development | Think through and express ideas | | | |  | |
| Contentment | An emotional state when people feel happy in their environment, are cared for and well loved | | | | | |
| Self-image | How individuals see themselves or how they think others see them | | | | | |
| Self-esteem | How good or bad an individual feels about themselves and how much they values their abilities. | | | | | |
| Informal relationships | Relationships formed between family members | | | | | |
| Friendships | Relationships formed with people we meet in the home or in situations such as schools, work or clubs | | | | | |
| Formal relationships | relationships formed with non-family/friends – such as teachers and doctors. | | | | | |
| Intimate relationships | romantic relationships. | | | | | |

| D. | How do humans develop physically (P)? |
|-------|---|
| 0-2 | <ul style="list-style-type: none"> Gross Motor Development (G) = life head, roll over, sit unaided, walk holding onto something, walk unaided, climb stairs, kick and throw, walk upstairs, jump. Fine Motor Development (F) = hold a rattle for short time, reach for an item, pass item from one hand to other, hold between finger and thumb, scribble, build a tower, use a spoon, draw lines and circles, turn page of a book. |
| 3-8 | <ul style="list-style-type: none"> G = ride a tricycle, catch a ball with two hands, walk backwards and step to the side, bounce a ball, run on tiptoes, ride a bike, catch a ball with one hand, balance along a thin line. F = hold a crayon to make circles and lines, thread small beads, copy letters and shapes with a pencil, make detailed models with construction bricks, joined up writing, use a needle to sew. |
| 9-18 | <ul style="list-style-type: none"> Girls = puberty starts at 10-13 years, breasts grow, hips widen, menstruation begins, uterus and vagina grow. Boys = voice deepens, muscles and strength increase, erections, facial hair, produce sperm. Both = pubic and underarm hair, growth spurts. |
| 19-45 | <ul style="list-style-type: none"> Physically mature, sexual characteristics are fully formed, peak of physical fitness, full height, women at most fertile. Later in the life stage people may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow down |
| 46-65 | <ul style="list-style-type: none"> People may put on weight, hair turn grey and men may lose hair, women's menstrual cycle was slow down. Women go through the menopause – when menstruation ends and they can no longer become pregnant. Men may continue to be fertile throughout life but decrease in sperm production in this life stage. |
| 65+ | <ul style="list-style-type: none"> Women's hair becomes thinner, men may lose most of their hair, skin loses elasticity and wrinkles appear, nails hard and brittle, bones weaken, higher risk of contracting infections disease and illness. Stamina, reaction time, muscle and senses (hearing, sight, taste) all reduce. |

| What we are learning this term: | | | | | | | | | | | | |
|---|-------------------------|---------------------------------------|--|--|--|---|--|--|--|--|--|--|
| A. Key words B. What are the main life stages C. What are the 4 areas of growth and development (PIES)? D. How do Humans develop physically (P)? | | B | What are the main life stages? | | | C | What are the 4 areas of growth and development (PIES)? Explain them. | | | | | |
| A. | Key words for this Unit | | | | | | | | | | | |
| Characteristics | | | | | | | | | | | | |
| Life stages | | | | | | | | | | | | |
| Growth | | | | | | | | | | | | |
| Development | | | | | | | | | | | | |
| Gross motor development (G) | | | | | | | | | | | | |
| Fine motor development (F) | | | | | | | | | | | | |
| Language development | | | | | | | | | | | | |
| Contentment | | | | | | | | | | | | |
| Self-image | | | | | | | | | | | | |
| Self-esteem | | | | | | | | | | | | |
| Informal relationships | | | | | | | | | | | | |
| Friendships | | | | | | | | | | | | |
| Formal relationships | | | | | | | | | | | | |
| Intimate relationships | | | | | | | | | | | | |
| B | | What are the main life stages? | | | | | | | | | | |
| Age Group | | Life Stage | Developmental Characteristics and Progress | | | | | | | | | |
| 0-2 years | | | | | | Physical Development (P)  | | | | | | |
| 3-8 years | | | | | | Intellectual Development (I)  | | | | | | |
| 9-18 years | | | | | | Emotional Development (E)  | | | | | | |
| 19-45 years | | | | | | Social Development (S)  | | | | | | |
| 46-65 years | | | | | | | | | | | | |
| 65+ years | | | | | | | | | | | | |
| D. | | How do humans develop physically (P)? | | | | | | | | | | |
| 0-2 | | | | | | | | | | | | |
| 3-8 | | | | | | | | | | | | |
| 9-18 | | | | | | | | | | | | |
| 19-45 | | | | | | | | | | | | |
| 46-65 | | | | | | | | | | | | |
| 65+ | | | | | | | | | | | | |

| What we are learning this term: | | F. | How do humans develop emotionally (E)? | |
|---|---|------------------|--|---|
| E. How do humans develop intellectually (I)? F. How do humans develop emotionally (E)? G. How do humans develop socially (S)? | | | <u>Infancy and Early Childhood</u> | <u>Adolescence and adulthood</u> |
| E. <u>How do humans develop intellectually (I)?</u> | | | <u>Bonding and Attachment</u> Bonding and attachment describe the emotional ties an individual forms with others. It starts in the first year of life between infants and their main carer because that person fulfils the infants needs which makes them feel safe and secure. | <u>Self-image and Self-esteem</u> Self-image is heightened during adolescence because of the physical changes we experience. Our self-esteem can change from day to day based on a variety of factors including employment and health status. |
| Infancy  | At birth brains are already well developed. Infants use all of their senses to learn about the world around them. Infancy is a time of rapid intellectual development. At 3 months infants can remember routines. At 9-12 months infants are developing their memory. At 12 months to 2 years infants understand processes and how things work. Language begins to develop during this stage. | | <u>Security</u> For infants and young children, security is mainly the feeling of being cared for, being safe and loved – it is closely linked with attachment. | <u>Security</u> Adolescence may feel insecure because of puberty. Adults may feel insecure about relationships, job security of income. Later in life adults may feel insecure about staying in their own home or going into a care home. Feeling secure helps us cope better with everyday situations. |
| Early childhood  | At 3-4 years of age children become more inquisitive and enjoy exploring objects and materials. They ask lots of questions and enjoy solving simple problems. At 5-6 years old children's memory is becoming well developed. This helps them to talk about the past and anticipate the future. | | <u>Contentment</u> Infants and young children are content if they have had enough food, love, are clean and dry and all other needs are met. | <u>Contentment</u> When people feel discontented with aspects of their life – for example, relationships or work – their emotions can be negatively affected. |
| Adolescence  | During this time abstract thought is developed – thinking logically and solving complex problems are possible by the end of this life stage. Adolescents may find it difficult to understand the consequences of their actions but they are developing empathy – seeing things from another's point of view. | | <u>Independence</u> Independence is to care for yourself and make your own decisions. Infants are completely dependent on their carer. As children enter early childhood they develop more independence – feed self and get dressed. However, children still need a lot of help from their carer. | <u>Independence</u> Adolescence are dependent on their parents but are beginning to enjoy more independence and freedom to make their own choices. Adults enjoy living independently and controlling their own lifestyle and environment. Later in adulthood people become more dependent on others again. |
| | | G. | How do humans develop socially (S)? | |
| | | Life Stage | Types of relationships and social development | |
| | | Infancy | <ul style="list-style-type: none"> Solitary Play - From birth to 2 years, infants tend to play alone although they like to be close to their parent or carer; they may be aware of other children but not play with them. | |
| | | Early childhood | <ul style="list-style-type: none"> Parallel Play - From 2 to 3 years, children enjoy playing next to other children but are absorbed in their own game; they are not socialising or playing with other children. Cooperative or social play – from 3 years upwards, children start to play with other children; they have developed social skills that help them to share and talk together; they often make up games together, such as being a shopkeeper and customer. | |
| | | Adolescence | <ul style="list-style-type: none"> People become more independent and build more informal and formal relationships. Social development closely linked to emotions. Often strongly influenced by peers – 'peer group pressure'. | |
| | | Early adulthood | <ul style="list-style-type: none"> Increased independence means greater control of decisions about informal relationships. People may be developing emotional and social ties with partners and their own children. Social life often centred on the family but social skills are required to build and maintain formal relationships. | |
| | | Middle adulthood | <ul style="list-style-type: none"> Children have often left home, but there are likely to still be strong family relationships. Social circles may expand through travel, spending more time on hobbies or joining new groups. | |
| | | Later adulthood | <ul style="list-style-type: none"> Retired by this stage and so may enjoy more social time with family and friends or join new groups. However, later in the life stage people may begin to feel isolated if they struggle to get out or if partners and friends pass away. | |
| Early and Middle Adulthood  | By these life stages most adults have a good range of general knowledge. They use this knowledge and experience to solve problems that they come across in their personal and work lives. | | | |
| Later adulthood  | During this life stage people continue to learn and develop intellectually, however, their speed of thinking and memory may decline. This may affect their ability to think through problems and make logical decisions. | | | |

| What we are learning this term: | | F. | How do humans develop emotionally (E)? Explain each. | |
|---|--|------------------------------------|--|---|
| E. How do humans develop intellectually (I)? F. How do humans develop emotionally (E)? G. How do humans develop socially (S)? | | <u>Infancy and Early Childhood</u> | | <u>Adolescence and adulthood</u> |
| E. <i>How do humans develop intellectually (I)?</i> | | <u>Bonding and Attachment</u> | | <u>Self-image and Self-esteem</u> |
| Infancy  | | <u>Security</u> | | <u>Security</u> |
| | | <u>Contentment</u> | | <u>Contentment</u> |
| | | <u>Independence</u> | | <u>Independence</u> |
| Early childhood  | | G. | | How do humans develop socially (S)? |
| | | Life Stage | | Types of relationships and social development |
| | | Infancy | | |
| Adolescence  | | Early childhood | | |
| | | Adolescence | | |
| | | Early adulthood | | |
| Early and Middle Adulthood  | | Middle adulthood | | |
| | | Later adulthood | | |
| | | | | |
| Later adulthood  | | | | |





What we are learning this term:

- H. Key words
- I. How do physical factors affect development?
- J. How does lifestyle affect development?
- K. How do social and cultural factors affect development?
- L. How do relationships and isolation affect development?
- M. How do economic factors affect development?

H Key words:

| | |
|----------------------|--|
| Genetic inheritance | Genes the person inherits from their parents |
| Genetic disorders | Health conditions that are passed on from parent to child through their genes. e.g. cystic fibrosis |
| Lifestyle Choices | Include the food you eat and how much exercise you do. They also include whether you smoke, drink alcohol or take illegal drugs. |
| Appearance | The way that someone or something looks |
| Factor | A circumstance, fact, or influence that contributes to a result |
| Gender role | The role and responsibilities determined by a person's gender. |
| Culture | ideas, customs, and social behaviour. |
| Role models | Someone a person admires and strives to be like. |
| Social Isolation | Lack of contact with other people |
| Material possessions | Things that are owned by an individual |
| Economic | To do with person's wealth and income. |





| I. | How do physical factors affect development? | |
|---------------------------------|---|---|
| | <u>Genetic Disorders</u> | <u>Disease and Illness</u> |
| Physical Development | A person's physical build can affect physical abilities. Inherited diseases may affect strength and stamina needed to take part in exercise. | May affect the rate of growth in infancy and childhood. Could affect the process of puberty. Could cause tiredness and/or mobility problems. Could limit of prevent participation in physical activity. |
| Intellectual Development | Some genetically inherited diseases may result in missed schooling, or have a direct impact on learning – conditions such as Edward's syndrome impact learning. | School, college, university, work or training could be missed. Memory and concentration could be affected. |
| Emotional Development | Physical appearance affects how individuals see themselves (self-image), and how others respond to them impacts on their confidence and wellbeing. | May cause worry and/or stress. Individuals may develop negative self-esteem. Could lead to feelings of isolation. |
| Social Development | Physical characteristics or disease may affect opportunities or confidence in building friendships and becoming independent. | May cause difficulty in having opportunities to socialize with other and build wider relationships. |

| J. | How does lifestyle affect development? | |
|--|---|--|
| Lifestyle choices include; diet, exercise, alcohol, smoking, sexual relationships and illegal drugs, appearance. | | |
| Positive lifestyle choices lead to: <ul style="list-style-type: none">• Healthy hair, skin, nails and teeth• Positive self-image• Energy and stamina• Good health• Emotional security  | Negative lifestyle choices lead to: <ul style="list-style-type: none">• Being overweight or underweight• Lack of energy• Ill health• Negative self-image• Sexually transmitted diseases (STDs)• Unplanned pregnancy  | |
| Our appearance includes: body shape, facial features, hair and nails, personal hygiene and our clothing. Our appearance can affect the way we view ourselves- self-image | | |
| Positive self-image: <ul style="list-style-type: none">• Feel good about yourself.• Healthy hair, skin, nails and teeth• Big social circle.• High self-esteem.• High self-confidence.  | Negative self-image <ul style="list-style-type: none">• Low self-esteem• Low self-confidence• Can lead to eating disorders e.g. anorexia• Can lead to anxiety or depression• Can lead to self-harm• Negative impact on building relationships- social circle decreases.  | |

| What we are learning this term: | |
|---------------------------------|--|
| H. | Key words |
| I. | How do physical factors affect development? |
| J. | How does lifestyle affect development? |
| K. | How do social and cultural factors affect development? |
| L. | How do relationships and isolation affect development? |
| M. | How do economic factors affect development? |

| H | Key words: |
|----------------------|------------|
| Genetic inheritance | |
| Genetic disorders | |
| Lifestyle Choices | |
| Appearance | |
| Factor | |
| Gender role | |
| Culture | |
| Role models | |
| Social Isolation | |
| Material possessions | |
| Economic | |

| | | |
|--------------------------|---|----------------------------|
| I. | How do physical factors affect development? | |
| | <u>Genetic Disorders</u> | <u>Disease and Illness</u> |
| Physical Development | | |
| Intellectual Development | | |
| Emotional Development | | |
| Social Development | | |

| | | |
|--|--|---|
| J. | How does lifestyle affect development? | |
| Lifestyle choices include; diet, exercise, alcohol, smoking, sexual relationships and illegal drugs, appearance. | | |
| <u>Positive lifestyle choices lead to:</u> • • • • • •  | | <u>Negative lifestyle choices lead to:</u> • • • • • •  |
| Our appearance includes: body shape, facial features, hair and nails, personal hygiene and our clothing. Our appearance can affect the way we view ourselves- self-image | | |
| <u>Positive self-image:</u> • • • • • •  | | <u>Negative self-image</u> • • • • • •  |



| K | How do social and cultural factors affect development |
|---|---|
| Development can be influenced by the persons culture or religion because it affected their: <ul style="list-style-type: none"> Values: how they behave Lifestyle choices: diet, appearance | |
| <u>Positive affects of a persons culture/religion:</u> <ul style="list-style-type: none"> A sense of security and belonging from sharing the same values and beliefs with others. Good self-esteem through being accepted and valued by others | <u>Negative affects of a persons culture/religion:</u> <ul style="list-style-type: none"> Feeling discriminated against by people who do not share their religion/culture which leads to low self-image Feeling excluded and isolated because their needs like diet, are not catered for. |
| Community refers to: local area where people live, school, religious group or hobby clubs. They have common values and goals. | |
| <u>Belonging to a community:</u> <ul style="list-style-type: none"> Brings sense of belonging essential for emotional development. Building and maintaining relationships- social development Feeling of security. Increases self-image and self-confidence | <u>Not belonging to a community:</u> <ul style="list-style-type: none"> Minimal contact with others- isolation Anxiety leading to depression Making negative lifestyle choices Feeling less secure Difficulty in building relationships Slow self-image and self-confidence |
| Traditionally, men and women had distinctive responsibilities and expectations which for their gender called gender roles . However, nowadays UK equality legislation stops people being discriminated against because of their gender. | |
| What happens when people face discrimination because of gender: <ul style="list-style-type: none"> They might be excluded from a group They may be refused promotion at work They may be expected to carry out a particular role They may be paid less. | |

| What we are learning this term: | |
|--|---|
| K. How do social and cultural factors affect development? L. How do relationships and isolation affect development? M. How do economic factors affect development? | |
| L | How do relationships and isolation affect development? |
| 1 | In adolescence, young people often argue with parents because they want more independence- negative affect on family relationships- can lead to isolation from them. |
| 2 | In later life, older people might need to rely on their children for support. This then has a positive affect on their development because all their need are catered for. |
| 3 | Relationships are important because they provide emotional security, contentment and positive self- esteem. |
| 4 | The breakdown of personal relationships can have a negative effect on persons PIES development: Low self-esteem, loss of confidence, stress. |
| 5 | Isolation can happen when individuals do not have the opportunity of regular contact with others. They have no one to share their feelings, thoughts and worries with resulting in feeling insecure and anxious. |
| 6 | Isolation can happen because they live alone, are unemployed or retired, are discriminated against or have an illness or a disability. |
| 7 | People have role models- infants learn by copying others, and adolescence base their identity on their role models. Role models can influence how people see themselves compared to others and their lifestyle choices can be positive or negative. |

| M | How do economic factors affect development | |
|---|--|---|
| | Having enough money gives individuals and their families feeling of content and security | Not having enough money causes stress and anxiety. |
| | Having enough money means that the whole family is eating healthy. | Not having enough money can mean that the family is not about to eat well balanced diet, and this has a negative effect on their physical development |
| Elderly people rely on state pension to live which is not enough and have to cut down on travel, shopping, bills, therefore it speeds their aging process and lead to health decline. | | |
| | <u>Living in good housing with open spaces:</u> <ul style="list-style-type: none"> Feeling good about themselves Be more likely to stay healthy, Space to take exercise Feel safe and secure Warmth | <u>Living in a poor housing with cramped and damp conditions:</u> <ul style="list-style-type: none"> Have low self-esteem and self-image Be more likely to experience ill health Be less likely to exercise Anxious and stressed. |
| | Material possession like a new phone or coat has a positive effect on the persons development because they might have more friends as they look nicer, high self-image. | Not having a phone or the newest trainers can have a negative affect in the persons self-image and self-esteem. They might feel isolated from others. |



| K How do social and cultural factors affect development | | What we are learning this term: | |
|--|--|---|--|
| Development can be influenced by the persons culture or religion because it affected their: <ul style="list-style-type: none"> Values: how they behave Lifestyle choices: diet, appearance | | K. How do social and cultural factors affect development? L. How do relationships and isolation affect development? M. How do economic factors affect development? | |
| L | How do relationships and isolation affect development? | M How do economic factors affect development | |
| 1 | | Having enough money.... • • | Not having enough money • • |
| 2 | | Having enough money means that.... • • | Not having enough money can mean that... • • |
| 3 | | Elderly people rely on state pension to live which is not enough and have to cut down on travel, shopping, bills, therefore it speeds their aging process and lead to health decline. | |
| 4 | | <u>Living in good housing with open spaces:</u> • • • • • | <u>Living in a poor housing with cramped and damp conditions:</u> • • • • • |
| 5 | | | |
| 6 | | Material possession like a new phone or coat has a positive effect on the persons development because..... | Not having a phone or the newest trainers can have a negative affect on.... Because.... • • • • • |
| 7 | | | |
| Community refers to: | | | |
| <u>Positive affects of a persons culture/religion:</u> • • | <u>Negative affects of a persons culture/religion:</u> • • | | |
| <u>Belonging to a community:</u> • • • • • | <u>Not belonging to a community:</u> • • • • • | | |
| Traditionally, men and women had distinctive responsibilities and expectations which for their gender called gender roles . However, nowadays UK equality legislation stops people being discriminated against because of their gender. | | | |
| What happens when people face discrimination because of gender: • • • • | | | |

| What we are learning this term: | |
|--|--|
| N. What are life events? O. How do people deal with life events? P. How is dealing with life events supported? | |
| N. | What are life events? |
| Life Events | Life events are expected or unexpected events that can affect development. Examples include starting nursery, getting married or becoming ill. |
| Expected Life Events | Expected life events are life events that are likely to happen. Examples include starting primary school aged four and secondary school aged 11. |
| Unexpected Life Events | Unexpected life events are events which are not predictable or likely to happen. Examples could include divorce and bereavement (the death of a loved one). |
| Physical Events | Physical events are events that make changes to your body, physical health and mobility. Examples include illnesses such as diabetes and injuries and accidents such as car accidents. |
| Relationship Changes | Relationship changes could be new relationships such as the birth of a sibling, a new friendship or romantic relationship. Relationship changes can also be changes to existing relationships such as divorce. |
| Life Circumstances | Life circumstances are different situations that arise in our life that we must deal with. Examples include redundancy (losing a job), moving house or retirement (finishing work in later adulthood). |

| O. | How do people deal with life events? |
|------------|---|
| Individual | <ul style="list-style-type: none"> The effects of life events vary from person to person based on how they deal with their new situation. Some people react to able to react to life events positively, others find it more difficult due to a range of factors. |
| Factors | <ul style="list-style-type: none"> Factors that may affect how people cope with life events: age, other life events happening at the same time, the support they have, their disposition (their mood, attitude and general nature), their self-esteem, their resilience (how quickly they recover). |
| Adapting | <ul style="list-style-type: none"> Adapt – to adjust to new conditions or circumstances. Expected on unexpected life events can often force people to make changes to their lives. Individuals must find their own way to adapt to the changes that life throws at them. |
| Resilience | <ul style="list-style-type: none"> Resilience – a person's ability to come to terms with, and adapt to, events that happen in life. Resilience is stronger in people who have a positive outlook on life, accept that change happens, has supportive family and friends and plans for expected life events. |
| Time | <ul style="list-style-type: none"> Sometimes people need a long time to adapt to unexpected life events. It can take time for people to move on from and accept difficult changes in their life. |

| P. | How is dealing with life events supported? |
|------------------------|--|
| Types of Support | How this helps individuals deal with life events |
| Emotional Support | Emotional support is needed to help individuals deal with all life events – expected and unexpected. Having someone to talk to helps people feel secure and adapt to change. Sometimes individuals can find this support in family and friends or professionals to process difficult life events – such as bereavement. |
| Information and Advice | Life events, particularly unexpected ones, can cause people to feel like they do not know what to do. Information and advice can help people to have a better understanding of their situation, which allows them to deal with it more successfully. Information and advice help them know where to go for help, the choices than are available to them and how to make healthy choices. |
| Practical Help | <ul style="list-style-type: none"> Financial help – an individual may need money to help them adapt to a life change i.e. money to pay for a stair lift if their mobility has been effected. Childcare – an individual may need support looking after their children i.e. a lone parent after a divorce that needs to go to work. Transport – an individual may need support with transport if they have mobility problems i.e. a car could be adapted to support a person who has had an accident and can no longer walk. |
| Informal Support | Informal support is the support an individual receives from partners, family and friends. It is usually the first form of support an individual experiences after and expected or unexpected life event. Informal support can provide reassurance, encouragement, advice, a sense of security, someone to talk through options with and practical help. |
| Professional Support | Formal support may be provided by statutory care services (the state), private care services and charitable organizations. Professional support may include counsellors, teachers, careers advisers, occupational therapists, social workers and health specialists. Professional support may be needed to help people with a health condition, regain mobility, deal with life changes and emotions, get advice and information or change their lifestyle. |
| Voluntary Support | Organizations offering voluntary support are charities, community groups and religious groups. At voluntary support services, many staff are volunteers (they work for free), but they also employ qualified people who are paid by donations. Community groups work at a local level to meet the needs of people living in a specific neighbourhood i.e. foodbanks. Religious groups are formed by people who share the same religious or spiritual beliefs but they help all people in need regardless of their beliefs and background i.e. a church run soup kitchen for the homeless. |

| What we are learning this term: | | O. | How do people deal with life events? |
|--|--|------------------------|--|
| N. What are life events? O. How do people deal with life events? P. How is dealing with life events supported? | | Individual | |
| N. | | Factors | |
| What are life events? | | Adapting | |
| Life Events | | Resilience | |
| Expected Life Events | | Time | |
| Unexpected Life Events | | P. | How is dealing with life events supported? |
| Physical Events | | Types of Support | How this helps individuals deal with life events |
| Relationship Changes | | Emotional Support | |
| Life Circumstances | | Information and Advice | |
| | | Practical Help | |
| | | Informal Support | |
| | | Professional Support | |
| | | Voluntary Support | |

Music terms and signs

Glossary - Eduqas GCSE Music












Dynamics

| | | | | | |
|---|--------------|--------------------|---|----------|------------|
| <i>pp</i> | <i>p</i> | <i>mp</i> | <i>mf</i> | <i>f</i> | <i>ff</i> |
| PIANISSIMO | PIANO | MEZZO PIANO | MEZZO FORTE | FORTE | FORTISSIMO |
| very soft (v. quiet) | soft (quiet) | moderately soft | moderately loud | loud | very loud |
|  | | |  | | |
| crescendo (cresc.) gradually getting louder | | | diminuendo (dim.) gradually getting quieter | | |

Tempo

| | | | | | |
|---|------------------|---------------------------|------------|--------------------|------------|
| LARGO | LENTO/ ADAGIO | ANDANTE/ MODERATO | ALLGRETTO | ALLEGRO/ VIVACE | PRESTO |
| v. slow | slow | walking pace/ moderate | quite fast | quick/lively | very quick |
| <ul style="list-style-type: none"> Accelerando: gradually getting faster Rallentando/ritardando: gradually getting slower A tempo: return to the original speed Ritenuato: in slower time Rubato: rhythms are played in a more free/flexible way ('robbed time'). | | | | | |

Time values

| NOTE | NAME | LENGTH (duration) | REST |
|---|-----------------|----------------------|---|
|  | Semibreve | 4 beats |  |
|  | Minim | 2 beats |  |
|  | Crotchet | 1 beats |  |
|  | Quaver | 1/2 beats |  |
|  | Semiquaver | 1/4 beats |  |
| A dot after the note increases its length by half: | | | |
|  | Dotted minim | |  |
|  | Dotted crotchet | |  |
| Groups of quavers/semiquavers are usually beamed together: | | | |
|   | | | |

Terms and signs









| | | |
|---|-----------|--|
| # | Sharp | Raises a note by a semitone. |
|  | Flat | Lowers a note by a semitone. |
|  | Natural | Cancels a previous sharp or flat for a note. |
|  | Staccato | Detached. |
|  | Slur | Play smoothly. |
|  | Tie | Hold the notes for the full value of the tied notes. |
|  | Accent | Emphasize the note (play forcefully). |
|  | Pause | Hold the note longer. |
| sfz | Sforzando | Sudden stress/ accent. |

Glossary - Eduqas GCSE Music







Complete the missing key words and symbols

Terms and signs

| | |
|--|--|
| # | |
|  | |
|  | |
|  | |
|  | |
|  | |
|  | |
|  | |
|  | |
| <i>sfz</i> | |

A dot after the note increases its length by half:

| | | |
|---|----------------------|---|
|  | <input type="text"/> |  |
|  | <input type="text"/> |  |

Complete the missing key words and symbols

Popular Music

Area of study 4 - Eduqas GCSE Music



Popular music includes:

- **POP**
- **ROCK**
- **RAP**
- **HIP HOP**
- **REGGAE**

Plus many other genres, e.g. soul, ska, heavy metal, R&B, country, rock'n'roll.

FUSION: when two different styles are mixed together. This can be two styles of popular music e.g. 'rap metal', or could combine a popular music genre with other styles, folk-rock, gospel, world music, classical to create a new and interesting sound. **Jazz fusion** (jazz and pop) is a popular genre.

Instruments

ELECTRIC GUITAR:

- **Lead guitar:** plays the melody/ solos/riffs
- **Rhythm guitar:** plays the chords/ accompaniment.

BASS GUITAR: plays the bass line.

DRUM KIT: provides the beat.

LEAD SINGER: the main vocalist.

BACKING VOCALS: singers who provide harmony.

Pop/rock groups may also include **acoustic** (not electric) instruments e.g. trumpet, trombone, saxophone and/or electronic keyboards/synthesizers.

Features and techniques found in popular music

| | |
|---------------------|---|
| Riff | A short, repeated pattern. |
| Hammer on | Finger brought sharply down onto the string. |
| Pitch bend | Altering (bending) the pitch slightly. |
| Power chords | A guitar chord using the root and 5 th note (no 3 rd). |
| Distortion | An effect which distorts the sound (creates a 'grungy' sound). |
| Slap bass | A percussive sound on the bass guitar made by bouncing the strings on the fret board. |
| Fill | A short, improvised drum solo. |
| Rim shot | Rim and head of drum hit at same time. |
| Belt | A bright, powerful vocal sound, high in the chest voice. |
| Falsetto | Male voice in a higher than usual range. |
| Syllabic | One note sung per syllable. |
| Melismatic | Each syllable sung to a number of different notes. |
| A cappella | Voices singing without instrumental accompaniment. |

The structure of a pop/rock song may include:

INTRO: short opening section, usually instrumental.

VERSE: same music but different lyrics each time.

CHORUS: repeated with the same lyrics each time (refrain).

MIDDLE EIGHT: a link section, often eight bars, with different musical ideas.

BRIDGE: a link/transition between two sections.

OUTRO: an ending to finish the song (coda).

*You may also hear a pre-chorus, instrumental interlude or instrumental solo.

*Strophic songs, 32 bar songs (AABA) and 12 bar blues are also found in popular music.

A typical rock ballad in verse-chorus form could follow the pattern:

- Intro
- Verse 1
- Chorus
- Verse 2
- Chorus
- MiddleEight
- Chorus
- Outro

Technology

| | |
|--------------------|---|
| Amplified | Made louder (with an amplifier). |
| Synthesized | Sounds created electronically. |
| Panning | Moving the sound between left and right speakers. |
| Phasing | A delay effect. |
| Sample | A short section of music that is reused (e.g. looped, layered). |
| Reverb | An electronic echo effect. |

Popular Music

Area of study 4 - Eduqas GCSE Music



Write about the instruments, in detail

Draw a ruler line then write the definition of each key word

Popular music includes:

-
-
-
-
-

Plus many other genres, e.g. soul, ska, heavy metal, R&B, country, rock'n'roll.

FUSION:

Instruments

Features and techniques found in popular music

Riff
Hammer on
Pitch bend
Power chords
Distortion
Slap bass
Fill
Rim shot
Belt
Falsetto
Syllabic
Melismatic
A cappella

The structure of a pop/rock song may include:

Intro =
Verse =
Chorus –
Middle Eight =
Bridge =
Outro =

**strophic songs ...

A typical rock ballad in verse-chorus form could follow the pattern:

-
-
-
-
-
-
-
-

Technology

Amplified
Synthesized
Panning
Phasing
Sample
Reverb

Complete the missing key words and symbols/Definitions!



KS4 Drama Knowledge Organiser – Component 1 Devising

| Key words | | What is a stimulus? |
|---|--|--|
| Abstract Blocking Catharsis Character Chorus Climax Comedy Contrast Development Dynamic Ensemble Epic Theatre Exposition Farce Flashback Form Forum theatre Fourth wall Genre Irony Melodrama Mood Monologue Naturalism | Parody Plot Realism Resolution Role Satire Scene Setting Staging Style Stock characters Stimulus Storyline Structure Suspense Tempo Tension Theatre maker Theatre of Cruelty Theatre of the Oppressed Tragedy Turning point | <p>A stimulus is a starting point to generate ideas. It may be a picture, song, poem, short story, object, or even just a word! It is meant to be explored, discussed and used to create an original piece of drama. The final piece of drama does NOT need to resemble any starting stimulus – the stimulus is simply the starting point in order to generate ideas to explore.</p> <p>Portfolio questions:</p> <ul style="list-style-type: none"> What was your initial response to the stimuli and what were the intentions of the piece? What work did your group do in order to explore the stimuli and start to create ideas for performance? What were some of the significant moments during the development process and when rehearsing and refining your work? How did you consider genre, structure, character, form, style, and language throughout the process? How effective was your contribution to the final performance? Were you successful in what you set out to achieve? <p><i>(Make sure you keep your notebook up to date! Spend a few minutes each lesson)</i></p> <p>Assessment Objectives – In this component, you will be assessed on your ability to...</p> <p>AO1 – Create and develop ideas to communicate meaning for theatrical performance. AO2 – Apply theatrical skills to realise artistic intentions in live performance. AO4 – Analyse and evaluate your own work and the work of others.</p> |
| <p>Explorative Strategies for devising:</p> <p>Still image/Tableau Thought track Hot seating Flashbacks/Flashforwards Cross-cutting Marking the moment Soundscape/Sound collage Narration Conscious alley Role on the Wall Mirroring Chair duet Forum theatre</p> | | |
| Practitioners – Which | | If you are doing LIGHTING for this component, ask your teacher for a lighting sheet |

Constantin Stanislavski

1863 - 1938



"The actor must use his imagination to be able to answer all questions (when, where, why, how)."

Believed that the audience should emotionally connect with the characters.

Actors should use their own experience to make their characters as believable as possible.

Terminology and techniques:

- The fourth wall
- Emotional memory
- The magic 'if'
- Sense memory
- Objectives
- Given circumstances
- Subtext
- Method of physical actions

Naturalism

Bertolt Brecht

1898 – 1956



"Art is not a mirror to reflect reality, but a hammer with which to shape it."

Believed that theatre should be used to spread a message and comment on society.

The audience should always be aware they are watching a play and constantly questioning what they see.

Terminology and techniques:

- Breaking the fourth wall
- Alienation (Verfremdungseffekt)
- Gestus
- Use of placards
- Narration
- Multi-role
- Minimal set/costume/props
- Masks

Epic theatre

Augusto Boal

1931 – 2009



"The theatre is a weapon, and it is the people who should wield it."

Believed that theatre gave people the ability to take control and make changes.

Well known for Forum Theatre, in which the audience can stop a piece of drama and step in to change the outcome.

Terminology and techniques:

- Forum theatre
- Improvisation
- Public theatre
- Audience participation
- 'Spect-actor'
- Exploring social issues

Theatre of the Oppressed

Jacques Lecoq

1921 - 1999



"The body knows things about which the mind is ignorant."

Believed theatre was about using the body to tell stories.

Focus on physical theatre, movement and mime.

Movement generates the emotion (muscle memory)

Levels:

1. Catatonic (jellyfish)
2. Relaxed (Californian)
3. Neutral (no story)
4. Curious/alert (Mr Bean)
5. Reactive/Suspense (melodrama)
6. Passionate (opera)
7. Tragic (petrified)

Seven levels of Tension

Frantic Assembly

1994 – Present

**FRANTIC
ASSEMBLY**

"We began with little more than a fierce work ethic and a desire to do something different and to do it differently."

World-renowned theatre company who use physical theatre to devise performance.

Wanted to create non-realistic pieces of theatre through the use of movement and music.

Terminology and techniques:

- Chair duet
- Hymn hands
- Lifts
- Walk the grid
- Mirroring
- Round-By-Through

Physical theatre

SWINDON ACADEMY READING CANON

Year 7



Year 8



Year 9



Year 10



#ReadingisPower