



**BRISTOL
METROPOLITAN
ACADEMY**

Monday 4th November	Week A
Monday 11th November	Week B
Monday 18th November	Week A
Monday 25th November	Week B
Monday 2nd December	Week A
Monday 9th December	Week B
Monday 16th December	Week A

Please note: Maths homework will be on an online platform for this term. It will be set and checked weekly separately from the timetable.

Knowledge Organisers 2024-25 Year 8 – Term 2

Complete your homework on the night stated e.g. if it is a Monday Week A you will complete ICT/DT

	Week A	Week B
Monday	ICT/DT	MFL
Tuesday	English	English
Wednesday	Science	Science
Thursday	History	Geography
Friday	RS	Music/Art

Contents

How to.

Art

Computing

Drama

DT

English

Food

French XX

Geography

German

History

Maths

Music

PE

RS

Science

Spanish

Textiles

This Knowledge Organiser is to help you see the key information for each subject for this term. You can use this to help you both with homework and with revision, supporting your learning at home. In the table below you will find the instructions for each subject to be completed on the correct day.

Subject	Tasks
Maths	Homework question tasks/sets will be set weekly on an online platform. You will have one week to complete this online, before it is checked for competition and the next set is published.
Science	For term 1 this will be directed by your classroom teacher. It could involve an online platform too.
English	Using the separate question booklet, divide your homework book page in half length ways, write the questions out on the left hand side. First, attempt to answer the questions from memory/your own knowledge. Then use your knowledge organiser booklets to check your answers and fill in the missing ones.
MFL	Find the correct date in the KO and the question booklet. With the list of 10 key words for that week, complete the look – say - cover – write – check method in your homework book. Complete this process for each word/phrase 4 times each.
Geog/Hist/RS /DT	Same process as outlined for English above. DT have 5 questions and not 10.
ICT	For term 1, continue to use the KO to do revision/key words etc in your homework books.
Music/Art	For music and art, you will have two practical tasks to complete each term for each subject. These will be found in the question booklets and will be checked by you classroom teacher.

At the back of this booklet, you will find: Sentence starters, a history chronology, DT sentence starters, a periodic table, maps of the world, subject websites, a RAG sheet and a timetable.

How to present your homework:

Subject written on the left-hand side of the page and underlined.
For example: Food

Topic written on the centre of the page and underlined.
For example: Sugars

One single straight line between both pieces of homework.

Subject: Food Tuesday 25th June 2019

Topic: Sugars

Keyword	Definition
Monosaccharides	
Disaccharides	
Intinsic sugars	
Polysaccharides	

Subject: English

Topic: Macbeth

1. Who are the four most important characters in Macbeth?
Macbeth, Lady Macbeth, Banquo and Macduff.
2. What are three character traits of Banquo?
Gullible, superstitious and ambitious.
3. How would you describe Lady Macbeth?
She is manipulative, cold-blooded and cruel.
4. How is Lady Macbeth two-faced?
She is warm and welcoming to Duncan, and then manipulates her husband to kill him.
5. What is the name of Banquo's son?
Fleance

Date written fully on the right-hand side of the page and underlined. This should be the day you complete the homework.

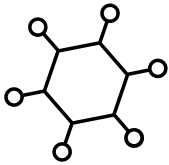
Home Learning Strategies to help you revise

Brain Dump



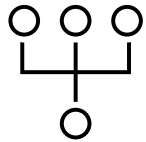
Write down everything you know about a certain topic on a page. Use your KO to add extra notes in a different colour.

Mind Map



Condense a topic showing the important links and connectors between key parts. Use your KO to add in extra notes.

Diagram



Draw a clear diagram for a subject including labels and key features. Make sure you use correct vocabulary and spellings.

Vocabulary



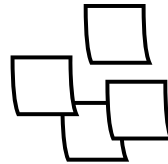
Learn the key words associated with a topic and commit the word and spelling to memory. Test yourself or ask someone else to test you.

Retrieval Quiz



Write key questions about a topic as well as the answers. Use the content of the KO to help you. Check to see if you can remember the answers without looking.

Compare



Complete a comparison table showing two different sides of a topic. Can you use it to create an argument for one viewpoint?

Year 8 Creature & Characters

Content: In this project you will

Knowledge—of different artists who create creatures and characters

Understand—What inspired artists to create their work and how to write about the work

Skills—drawing, collage, painting, clay and showing the influence of other artists in your own work and presentation

Outcome— a 3D monster and watercolour painting



Cressida Cowell

Analysis

All artist research pages should be annotated

Artwork-

- Artist name
- Describe the work-what does it look like?
- Use the formal elements i.e. colour, line etc.
- What techniques/materials were used?
- What is your opinion of the work?
- How is it relevant to your own idea?

Sentence starters

I like/dislike the way the artist has used...because

I think the colour scheme used is effective because...

I think the artist has been inspired by...because

Evaluation of Your Artwork-

- What inspired you to create the piece?
- What techniques did you use and why?
- What does it mean to you?
- How is it relevant to your idea?

Consider

Mythology, Fantasy and Surrealism as sources of inspiration

Keywords

Illustration—a decoration, interpretation or visual explanation of a text.

Texture—used to describe how an object would feel when touched

Complementary Colours—opposite each other on the colour wheel



Alex Lucas is a Bristol based artist, who creates illustrations in a range of media. He also creates murals on walls and garages around the city. Keep an eye out for his artwork!



Nicola L Robinson is an illustrator for children's books. She is interested in mythology, history and fairy tales. Her favourite media to work in is 'pen and ink.' She is still working around the UK.

Artists

Assessment

D	Demonstrate a deepening knowledge, understanding and skill
O	On Track—demonstrate some knowledge, understanding and skills
Y	Yet to be on track—developing some knowledge, understanding and skills
A	At an earlier stage—starting to develop some knowledge, understanding and skills

Year 8 - Networks

Strong Passwords

Prevents unauthorised access to a computer system. A strong password contains: *Uppercase letters, Lowercase letters, Numbers, Symbols, 8 or more characters*

Saving Files

It is important to regularly save files/work so that you do not lose your work.

How to save a file?

1. Save in your documents
2. Save with a relevant file name
3. Saved in an appropriate folder structure
4. Save the file in a folder that is relevant to the topic

Save and Save As

- "Save" updates a file
- "Save As" creates another version of the file

Networks

Computers connected together that share data and resources.

Cloud Storage

Cloud computing is storage that you can access through the Internet

- + Files can be accessed from anywhere
- + You have unlimited storage space and can store for free
- + Allows you to create more local storage
- + Good form of a backup storage
- + Does not require expensive hardware
- You need internet access
- Has the potential to get hacked
- Data could be seen by a third party
- Can be expensive long term



Networks Types

Two or more computers connected together that share data and resources

LAN (Local Area Network)

Network in a small geographical area
Example: Small Office, School

WAN (Wide Area Network)

Network in a large geographical area
Example: The Internet

WPAN (Personal Area Network)

Network centred around a single user
Example: Bluetooth Headset, Hotspot

Advantages of Networks:

- + Sharing files is easier
- + Share hardware (printers)
- + Updates are central
- + User accounts can be stored centrally

Disadvantages of Network:

- Set up could be expensive
- Vulnerable to hacking
- Need specific hardware
- Might need a network manager

Bluetooth

Short range wireless connection

- + Very common connection type and Low power usage
- Low bandwidth and Short range

Wired and Wireless

Wired Networks

Computers connected together using wires.

- + Fast connection
- + More secure than wireless
- Set up could be expensive
- Wires are trip hazards
- Difficult to connect new devices

Wireless Networks

Computers connected together using wireless connections (Wi-Fi).

- + Freedom to move around
- Less secure
- Connection can be interrupted by walls and other electronic devices

Cyber Security

Malware - Any hostile or intrusive softwares

Hacking - People that gain unauthorised access to a computer

Prevention - Passwords, Antivirus, Firewall, Encryption



Yr 8 BMA Drama Knowledge Organiser

Theatre Roles

- **Playwright** – a person who writes plays *i.e. Shakespeare*
- **Performer** – entertains the audience
- **Understudy** – a person who learns another's role in order to be able to act at short notice in their absence
- **Director** - oversees and orchestrates the production (a play, an opera, a musical, or a devised piece of work) by combining all aspects of the production
- **Stage manager** - the person responsible for the lighting and other technical arrangements for a stage play.
- **Theatre manager** – has the responsibility for the smooth operational running of the theatre, ensuring it functions effectively and within budget. Manages staff, resources and systems and may also be responsible for leading on marketing and publicity activities.
- **Sound Designer** – designs and creates the sound *i.e. music, sound effects*
- **Set designer** – designs and creates the set
- **Costume Designer** – designs and creates costumes for a production
- **Puppet Designer** – designs and creates puppets for a production
- **Technician** - A theatrical technician is a person who operates technical equipment and systems in the performing arts and entertainment industry.

Terminology (Physical Skills)

- **Gesture** – an action of the body *i.e. pointing a finger or tilting the head*
- **Mannerism** – a habitual movement *i.e. twitching the nose, licking the lips*
- **Body language** – non verbal communication of the body to show emotion
- **Facial expressions** – how the face conveys emotion *i.e. an angry face shows furrowed eyebrows, pursed lips, squinted eyes, scrunched nose and forehead*
- **Proxemics** – how the stage space is used effectively to show something (i.e. relationships between characters)
- **Gait** – how a character moves *i.e. the Villain took big strides across the stage on tip toes lunging with his knees*
- **Energy** – low level or high level
- **Posture** – how a person carries themselves sitting or standing *i.e. – shoulder back, chest out, chin up, feet together*
- **Eye contact & focus** - the state in which two people are aware of looking directly into one another's eyes. Or where the eyes are focused
- **Relationship** – *how the character interacts with others on stage*

Techniques

- **Freeze – frame** - a frozen scene on stage
- **Role play** - pretending to be someone else, playing a character
- **Step – out** - a character to 'step out' of a scene and reveal something to the audience, while the rest of the action freezes.
- **Narration** – the process of telling a story
- **Split stage** - two or more scenes which are performed on stage at the same time
- **Stage configurations** - proscenium arch, thrust stage, In the round, traverse stage, promenade, end-on
- **Breaking the fourth wall** – characters speak to the audience by breaking the imaginary wall between them
- **Characterisation** – how your character appears, speaks, thinks, feels & moves, motivation & context
- **Positions** – *i.e. centre stage, upstage left, upstage right*
- **Blocking** – the movements of an actor
- **Devising** – to plan and create something from an idea or stimulus, target audience
- **Improvise** – create without preparation

Elements of play texts

Language, plot, themes, atmosphere, characters, context, conflict, climax, tension, pace, sound, symbol, interpretation, status

Terminology (Vocal Skills)

- **Accent** – shows where the character is from
- **Volume** – How loudly or softly you speak
- **Diction** – informal / slang the way in which you pronounce words clearly
- **Tone** – how the voice conveys emotion
- **Pitch** – High or low voice
- **Pace** – Speed of delivering dialogue
- **Pause** – used for effect
- **Intonation** – where the pitch goes up at the end of a sentence i.e. a question
- **Timing** – considered carefully for effect
- **Emphasis** – where a word or sound is exaggerated for effect

Year 8 D&T – Night Light Project

- A** is for **Aesthetics**
- C** is for **Cost**
- C** is for **Customer**
- E** is for **Environment**
- S** is for **Size**
- S** is for **Safety**
- F** is for **Function**
- M** is for **Material**

Analyse the Dinosaur Night Light by using ACCESS FM

You can use ACCESS FM to analyse existing products, write a specification, annotate designs and to evaluate the final outcome!



Electrical Systems Involve Circuits

- All electrical systems need to have a **complete circuit** to make them **work**. Here's a simple circuit:

The circuit isn't **complete** yet — there's a gap at the switch. When you press the switch down you make a complete circuit. An electric current flows and the lamp comes on.

You can draw **diagrams** of electrical circuits using **symbols** to represent the components.
- The materials you use in a circuit have to be **conductors** — they need to let **electricity flow through**. E.g. **copper** is used for the wire that joins the components because it's a **good conductor** and is **durable**.
- Insulators** (e.g. PVC) don't let electricity through, so they're used to coat the outside of wires.
- Voltage** from a power cell (a battery) or the mains pushes the electric current around a circuit.
 - Mains power is used for non-portable products like fridges and televisions.
 - Batteries are used in portable products. There are **disposable** batteries and **rechargeable** ones.
 - Rechargeable** batteries are more expensive than disposable batteries, but can be cheaper in the long run as you don't need to keep replacing them. They're **built in** to some products, e.g. mobile phones.
- Resistors** are used to **reduce** the current in a circuit so you don't damage delicate components (e.g. the lamp in the circuit above). Resistance is measured in **ohms** (Ω). A **larger** resistance means **less** current flows.

Colour-coded stripes show the resistance value.

Pillar Drill



Remember to consider the sustainability of your design — try using the 6 R's!



File



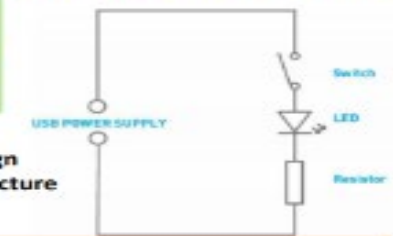
Fret Saw



Soldering Iron



Night Light Circuit Diagram



Acrylic polymethyl methacrylate (PMMA) is available in a variety of colours. It is a hard, rigid material that weathers well.

CAD = Computer Aided Design
CAM = Computer Aided Manufacture

Use modelling to improve your design

Modelling is a good way to solve problems with your design. You can make models using card as it's cheap and easy to work with. When modelling, try out different aspects of your design. For example, you could model just one part of the product separately, to check it works, before going on to the rest.

Test and evaluate each model

After you've made each model, do some tests to check that it's how it should be. Get some potential customers to try it out and give you feedback too.

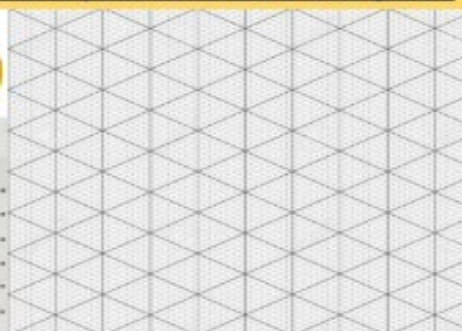
- You'll probably find there are some things that don't work out quite how you'd hoped. Write down what the problem is, suggest how to fix it and try out another model.
- Record how the design develops — take photos of your models.
- You should evaluate each model, against the design by considering the strengths and weaknesses.

Develop Ideas with Sketches

- 'Freehand' means drawing **without using any equipment** (except a pencil or pen).
- You can **combine** 2D and 3D sketches to explain details.
- And you can **annotate** your sketches (add **notes**) to explain details further, e.g. describing the **materials** and **processes** you'd use.



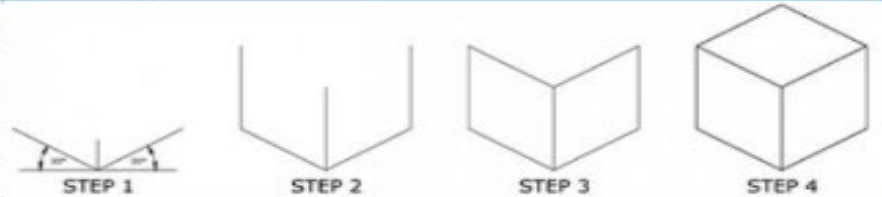
Practice your isometric drawing here

















Isometric Drawing Shows Objects at 30°

- Isometric drawing can be used to show a **3D picture** of an object.
- It **doesn't show perspective** (things don't get smaller in the distance), but it's **easy to get dimensions** right.
- There are **three main rules** when drawing in isometric:
 - Vertical edges are drawn as vertical lines.
 - Horizontal edges are drawn at 30°.
 - Parallel edges appear as parallel lines.

This drawing's been done on isometric dot paper. You could use plain paper and a 30°/60° set square instead.



Knowledge Organiser: Animal Farm

Writer's Intent		Characters			
<p>Orwell wrote <i>Animal Farm</i> as a 'fairy story' with the intent of teaching of the dangers of dictatorial regimes. The cyclical nature of the novella illustrates the inevitability of exploitation of the masses if they are not educated. The microcosm of Animal Farm is meant to be representative of what Orwell saw in the tyrannical regimes that were rife in twentieth century Europe.</p>	<p>Old Major</p>  <p>A pig. He creates the ideas behind Animalism and inspires the other animals to rebel. His privileged life has given him the time to think about the ways that humans exploit and enslave animals.</p>	<ol style="list-style-type: none"> 1. Old Major ... was so highly regarded on the farm. 2. 'Now, comrades, what is the nature of this life of ours? Let us face it: our lives are miserable, laborious, and short.' 3. 'Man is the only creature that consumes without producing.' 			
	<p>Napoleon</p>  <p>A pig. He cares more about his own power than he does about the ideals of the revolution. This leads him to build a totalitarian government based on terror and lies.</p>	<ol style="list-style-type: none"> 1. Napoleon was a large, rather fierce-looking Berkshire boar [...] with a reputation for getting his own way 2. Napoleon took them away from their mothers, saying that he would make himself responsible for their education. 3. The dogs flanked the procession and at the head of all marched Napoleon's black cockerel. 			
	<p>Snowball</p>  <p>A pig. Snowball is an intelligent pig, but he is less shrewd in the ways of power than Napoleon. He values the ideals of the revolution but is unable to retain power.</p>	<ol style="list-style-type: none"> 1. Snowball was a more vivacious pig than Napoleon. 2. Snowball also threw on to the fire the ribbons 3. Snowball, who had studied an old book of Julius Caesar's campaigns...was in charge of the defensive operations 			
Key Themes					
<p>Totalitarianism</p> <p>A form of government where the state seeks to control every facet of life. Those in power in care only about maintaining control through any necessary means.</p> 	<p>Squealer</p>  <p>A pig. Squealer is a terrific speaker who prioritizes his personal comfort above all else. He represents the propaganda that proliferates tyrannical regimes.</p>	<ol style="list-style-type: none"> 1. he could turn black into white. 2. Squealer was sent to make the necessary explanations 3. Here Squealer looked very sly. 			
	<p>Boxer</p>  <p>A horse. Boxer is honourable but not intelligent. He believes deeply in the revolution and has the strength to overthrow the dictatorship, but not the wit to realise that it is a dictatorship.</p>	<ol style="list-style-type: none"> 1. he was not of first-rate intelligence, 2. but he was universally respected for his steadiness of character and tremendous powers of work 3. 'I will work harder.' 'Napoleon is always right'. 			
<p>Revolution and Corruption</p> <p>The revolution in Animal Farm arises out of a hope for a better future. However, corruption occurs due to the pigs' greed.</p> 	<p>Benjamin</p>  <p>A donkey. Alone among the other animals, Benjamin seems to understand what's going on, but he does nothing to stop it. In the end, his inaction comes back to haunt him.</p>	<ol style="list-style-type: none"> 1. Benjamin was the oldest animal on the farm, and the worst tempered. 2. he saw nothing to laugh at. 3. Benjamin, as usual, said that he refused to meddle 			
	<p>Humans</p>  <p>The humans represent the original power structures in place before any revolution occurs. The humans care about profit at the expense of the welfare of their workers who they mistreat.</p>	<ol style="list-style-type: none"> 1. Mr. Jones...was too drunk to remember to shut the popholes 2. Mr. Pilkington, was an easy-going gentleman farmer 3. Mr. Frederick, a tough, shrewd man 			
		Writer's Methods		Key Context	
	<p>Cyclical Structure</p> <p>When conditions at the end of a story are in many ways similar to those at the start.</p>	<p>World War Two</p>  <p>Early twentieth century Europe was at war due to the rise of fascism (particularly in Nazi Germany). This led to Britain allying with the communist Soviet Union – another tyrannical leadership.</p>			
	<p>Symbolism</p> <p>An object which represents an abstract idea.</p>	<p>Social Democracy</p>  <p>Orwell derided any form of totalitarianism, whether Fascist or Communist. He wished for people to work for their own wealth but with a strong emphasis on helping those in poverty.</p>			
	<p>Allegory</p> <p>A story that can be interpreted to reveal a hidden meaning, typically a moral or political one.</p>	<p>Imperialism</p>  <p>A policy of extending a country's power and influence through colonisation.</p>			
<p>The Soviet Union</p> <p>While Animal Farm condemns all forms of totalitarianism, it is most explicitly an attack on the Soviet Union.</p> 	<p>Setting</p> <p>The place or surroundings where a scene takes place. It often highlights a key idea or tone for the scene.</p>	<p>The Russian Revolution</p>  <p>The Revolution saw the expulsion of the Tsar (king) but the rise of a new tyrannical leadership under the guise of equality.</p>			
	<p>Character Arc</p> <p>The transformation, or inner journey, of a character over the course of a narrative.</p>				

Knowledge Organiser: Animal Farm

Key Word Glossary			
Word	Definition	Example	Word in Action
Anthropomorphism	A type of personification - Giving animals human characteristics.	The Lion King is an example of anthropomorphism , as lions are shown to have a human monarchical society.	
Capitalism	The political ideology of profit. Centred on the individual (person, business, country). Each individual tries to gain as much as possible and give as little as possible.	The western world is built on capitalism . Profitability runs the economy.	
Communism	The political ideology of equality. Centred on the group – usually an entire country. Wealth, power, and rights are shared equally between all citizens.	Communism is said to be the greatest idea that can never work, because all it takes is one person to exploit the system for it to fail.	
Coup	An uprising where power is taken forcibly from the rulers.	The leader was overthrown at the hands of his subjects in a swift and merciless coup .	
Cult of Personality	A type of leadership where the leader becomes a figure of love and worship. The focus becomes less about ideas and more about the person.	The head teacher kept order at the school through a cult of personality .	
Dictator	A person with supreme authority over a group of people, usually a country. Their word is law.	Kim Jun-Un is an example of a modern-day dictator .	
Indoctrination	Where a person or group are taught to believe certain things without questioning them.	The children of Nazi Germany were brainwashed through a process of indoctrination .	
Imperative	An order.	“Get out!” is an imperative statement.	
Microcosm	Where a large place, often a country, is represented by a much smaller place and aspects of the larger place have been ‘shrunk’ or distilled into aspects of the smaller place.	The Serengeti in the Lion King is a microcosm for society, with the lions representing the ruling class.	
Propaganda	Using language as a means to persuade or control a group of people. Affects their thoughts and behaviour.	The whole country believed that they were under attack due to the relentless government propaganda .	
Rhetoric	Language with the purpose to persuade.	The speech was entirely given in rhetoric , designed to change the mind of the crowd.	
Totalitarian	A system of government where one person has absolute power and all citizens are subservient.	The animals live in a totalitarian regime – they have no rights and live in fear.	
Treachery	Betraying somebody who trusts you, particularly if that person is responsible for you such as your leader.	The treachery of the defectors ruined the whole plan.	
Tyranny	The unchecked and particularly cruel use of power to subdue and rule over citizens.	The mad king laughed as he watched his tyranny crush the spirits of the people.	

Why do we cook food?

The application of heat in the preparation of a food or mixture may:

- improve digestibility;
- improve appearance, flavour, odour and texture;
- increase the availability of nutrients;
- prevent spoilage;
- increase keeping qualities.

Heat Exchange

As a food is heated, its molecules absorb energy and vibrate more vigorously. The faster they move, the more the temperature of the food rises. If heat is removed, the molecules become less active, reducing the food's temperature.

Heat can be exchanged in three ways:

- conduction;
- convection;
- radiation

Factors that affect food choice

Celiac – cannot eat products containing gluten.

Lactose intolerance – the body can't digest the sugar lactose in dairy products.

Vegetarian: No meat in the diet
Vegan: No products from animals in the diet e.g. meat, milk or honey.

Religion:

Islam: Requires Halal meat, no alcohol, no pork

Judaism: Requires Kosher food, no meat and dairy together, no pork

Hinduism: No beef

Micro-nutrients

Vitamins and minerals are essential nutrients that your body needs in small amounts to work properly.

Fat-soluble vitamins

Fat-soluble vitamins (vitamin A, D, E and K) are mainly found in: animal fats, vegetable oils, dairy foods, liver and oily fish. While your body needs these vitamins to work properly, you don't need to eat foods containing them every day.

Water-soluble vitamins

Water-soluble vitamins (vitamin C, the B vitamins and folic acid) are mainly found in: fruit and vegetables, grains, milk and dairy foods. These vitamins aren't stored in the body, so you need to have them more frequently. If you have more than you need, your body gets rid of the extra vitamins when you urinate.

Minerals

Minerals include calcium and iron amongst many others and are found in: Meat, cereals, nuts, fish, milk and dairy foods, fruit and vegetables

Minerals are necessary for 3 main reasons:

- Building strong bones and teeth
- Controlling body fluids inside and outside cells

Turning the food you eat into energy

Macros



Protein

Builds & Protects Muscles
 Found in: meat, dairy & some plants



Fat

Provides Long Lasting Energy
 Found in: nuts, oils, dairy & meat

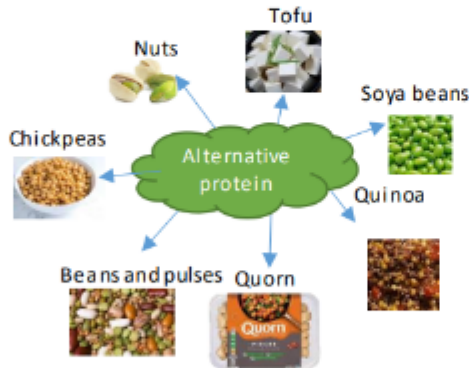


Carbs

Quickest Source of Energy
 Found in: fruits, vegetables & grains

Alternative protein

Proteins are known as the building blocks of life: In the body, they breakdown into amino acids that promote cell growth and repair. (They also take longer to digest than carbohydrates, helping you feel fuller for longer and on fewer calories—a plus for anyone trying to lose weight.) You probably know that animal products—meat, eggs, and dairy—are a good source of protein.



Food Poisoning

Food poisoning is a disease caused by eating a spoiled or contaminated food. Such food may contain certain microorganisms, toxins or enzymes.

Symptoms of food poisoning:

- o Stomach pains and cramps
- o Nausea and vomiting
- o Diarrhoea
- o Fever
- o Shivers



Vegetarians and **vegans** don't consume meat so instead they use protein alternative products which are manufactured in order to provide protein in a diet and protein rich foods.

Protein complementation is when two LBV proteins are eaten together. Examples of protein complementation's are: hummus with pitta bread; nut roast made from a variety of nuts and seeds; vegetable curry and rice; lentilsoup and wholemeal bread; baked beans on toast.

LBV proteins- Foods that are deficient in one or more of the essential amino acids are said to have a **low biological value (LBV)**. Foods originating from plants (cereals, nuts, seeds, lentils, beans, pulses)

Setting and thickening (coagulation): Eggs will set when cooked. This is shown when you make a quiche or an egg custard.
Enriching: Eggs add nutritional value to a dish. This is shown when you make egg fried rice.
Raising agent: When whisked, eggs can hold air and become a raising agent. They can make a mixture light in texture, e.g. Chocolate éclairs.
As a glaze and to add colour: Beaten egg can be used as a glaze which turns golden brown on heating. An example is glazing sausage rolls with egg before cooking to give a golden brown finish.
Aeration: Eggs can be whisked to hold air and form a foam. The protein in the egg white becomes stretched and holds the air bubbles. This is shown in making meringues or a whisked sponge. When the meringues or whisked sponge are cooked the protein sets and hardens.

Food Spoilage

Cross-contamination

Cross-contamination means that bacteria, toxins or food particles were transferred to a food product.

Cross-contamination can cause food poisoning and allergic reactions.

Anaphylactic shock is a life-threatening reaction of the immune system to an allergen.

Food can become contaminated from:

- Waste food and rubbish
- Pests and rodents
- The cook's hand
- Work surfaces and equipment
- Other contaminated foods, including high-risk foods.

Most common allergens:

- Nuts
- Fish and seafood
- Milk
- Eggs



Signs of Food Spoilage- Many species of microorganism and some enzymes can cause food spoilage.

	Bacteria	Yeast	Mould	Enzymes
Food Spoilage	The bacteria Clostridium botulinum produces a toxin which causes meat preserves to bulge. Bacteria can also make meat products look slimy and green in colour.	Ferments sugar in juices and beverages, making them sour, fizzy and foamy.	Create green, white or black coat on food products such as bread, grapes, tomatoes and jams.	Turns bananas, apples, potatoes and other foods brown.



Key words

Microorganism - a very small living bacteria.

Toxins - poison of plant or animal origin, especially one produced by or derived from microorganisms

Preserves - something in its original state

Ferments - The process in which yeast produces the gas carbon dioxide and alcohol.

Micros



Vitamins

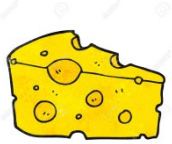
Made by Plants & Animals
 Found in: meat, dairy & plants



Minerals

Consumed by Plants & Animals
 Found in: meat, dairy & plants

Was isst du?	What do you eat?
das Brot	Bread
der Fisch	Fish
der Käse	Cheese
die Butter	Butter
die Milch	Milk
der Kaffee	Coffee
der Tee	Tea
die Cola	Coke
der Zucker	Sugar
der Schinken	Ham
heiße Schokolade	Hot chocolate
der Apfel	Apple
die Fleisch	Meat
die Marmelade	Jam
das Eis	Ice cream
grüne Bohnen	Green beans
das Gemüse	Vegetables
die Pommes	Chips
die Chips	Crisps
der Spinat	Spinach
das Ei	Egg
das Wasser	water



Wann isst du?	When do you eat?
das Frühstück	Breakfast
das Mittagessen	Lunch
der Imbiss	Snack
das Abendessen	Evening meal/tea

Magst du....?
Ja
Nein
denn es ist...
gut
fantastisch
köstlich
lecker/schmackhaft
gesund
schrecklich
furchtbar
widerlich
würzig
salzig
fettig
gut für deine Gesundheit
enspannend
gesellig
eine Herausforderung
Es macht Spaß
toll/spitze
ermüdend
nicht gut für deine Gesundheit
ungesund



Do you like...?
Yes
No
Because it is...
good
fantastic
delicious
tasty
healthy
horrible
awful
disgusting
spicy
salty
fatty
good for your health
relaxing
sociable
a challenge
fun
great
tiring
Bad for your health
unhealthy



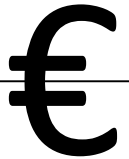
Was möchten Sie essen? Kann ich Ihnen helfen?
Ich möchte ...
essen/trinken
Vorspeise/Hauptgericht/Nachtsch/Getränk
die Rechnung, bitte
Kellner/Kellnerin
Ich nehme/ich hätte gern
das Trinkgeld
Das ist alles
Danke

What would you like to eat? Can I help you?
I would like...
to eat/to drink
starter/main meal /dessert/drink
The bill please
A waiter/waitress
I'll take (have)
The tip
That's all
Thank you

Möchtest du...?	Would you like...?
eine Packung	A packet of
ein Liter	A litre of
ein Kilo	A kilo of
ein halbes Kilo	Half a kilo of
eine Flasche	A bottle of

Was magst du?	What do you like?
Ich mag	I like
Ich mag...nicht	I don't like
Ich liebe	I love
Ich hasse	I hate
Ich esse lieber	I prefer eating
Ich denke, dass	I think, that
Meiner Meinung nach	In my opinion

Zahlen	Numbers
zehn	10
zwanzig	20
dreißig	30
vierzig	40
fünzig	50
sechzig	60
einundsechzig	61
siebzig	70
einundsiebzig	71
achtzig	80
zweiundachtzig	82
neunzig	90
zweiundneunzig	92
hundert	100
zweihundert	200



My home! Year 8 German ARE 2 vocab. list

<p>Wo wohnst du ? Ich wohne... In einem Haus in einer Wohnung in einem Wohnwagen auf dem Land in den Bergen an der Küste in der Stadt am Stadtrand in einem Dorf im Norden im Süden im Westen im Osten</p>	<p>Where do you live? I live... In a house  In a flat  In a caravan  In the countryside In the mountains  On the coast  In a city/town In the suburbs In a village In the north In the south In the west In the east</p>
<p>Extending our sentences Opinion phrases Meiner Meinung nach Ich denke, dass Ich glaube, dass Ich finde Intensifiers wirklich sehr ziemlich ein bisschen Connectives weil or denn auch aber obwohl</p>	<p>Extending our sentences Opinion phrases In my opinion I think that I believe that I find Intensifiers Really Very Quite A little Connectives Because Also But However</p>

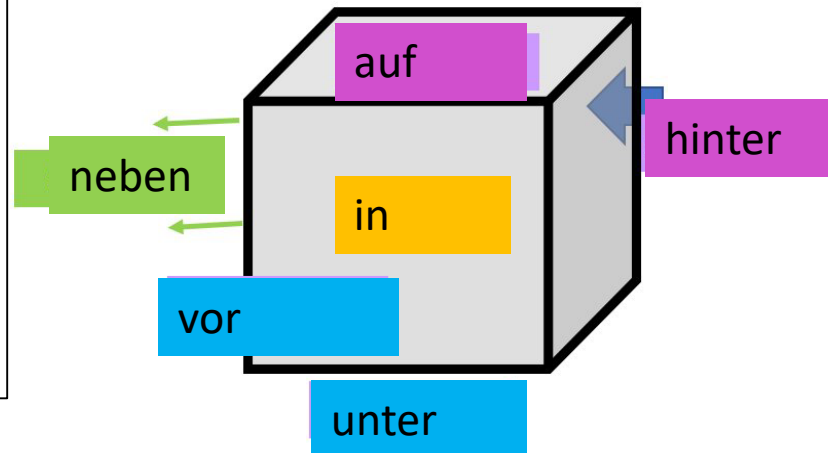
<p>Was hast du in deinem Haus ? Es gibt ... Es gibt keinen,keine,kein einen Garten einen Dachboden ein Büro eine Garage ein Wohnzimmer einen Eingang eine Küche ein Schlafzimmer ein Esszimmer ein Badezimmer eine Terrasse die Toiletten einen Balkon im ersten Stock im zweiten Stock im Erdgeschoss</p>	<p>What is there in your house? There is / are... There isn't... A garden An attic An office/study A garage A living room A hall A kitchen A bedroom A dining room A bathroom A terrace The toilets A balcony On the first floor On the second floor On the ground floor</p>
---	---

<p>Was hast du in deinem Schlafzimmer ? ein Bett eine Wand einen Schreibtisch einen Computer einen Kleiderschrank einen Teppich ein Regal eine Lampe eine Tür einen Stuhl ein Fenster eine Kommode die Poster</p>	<p>What is there in your bedroom? A bed A wall A desk A computer A wardrobe A carpet A shelf/shelves A lamp A door A chair A window A chest of drawers Some posters</p>
--	--

My Town! Year 8 German ARE 2 vocab. list

Beschreib dein Dorf/ deine Stadt	Describe your village/ town
Es ist...	It's...
groß	big
klein	small
historisch	historic
ruhig	peaceful
touristisch	appealing to tourists
industriell	industrial
kulturell	cultural
wichtig	important
lebendig/lebhaft	lively
laut (e)	noisy
verschmutzt	polluted
modern	modern
schön	pretty
hässlich	ugly
neu	new
alt	old
bequem	comfortable
Es ist kleiner als...	It's smaller ... than...
Es ist weniger ...als	It's less ... than...
Ich bevorzuge... weil E	I prefer... because
ist mehr/weniger...	it's more/less...

Wo ist...?	Where is...?
auf	on
unter	under
vor	in front of
in	in
hinter	behind
zwischen	between
neben	next to
gegenüber	opposite to
In der Nähe	near to



Was besuchst du?	What do you visit?
Ich besuche...	I visit...
Wir besuchen...	We visit...
den Strand	The beach
das Schwimmbad	The swimming pool
das Eisstadion	The ice rink
die Metzgerei	The butchers
die Bäckerei	The bakery
den Bahnhof	The train station
den Busbahnhof	The bus station
die Buchhandlung	The book shop
die Konditorei	The cake shop
die Post	The post office
das Stadtzentrum	The town centre
das Kino	The cinema
das Museum	The museum
das Theater	The theatre
das Verkehrsamt	The tourist information office
das Einkaufszentrum	The shopping centre
das Sportszentrum	The leisure centre
die Polizeiwache	The police station
der Markt	The market
der Supermarkt	The supermarket
das Stadion	The stadium
den Freizeitpark	The theme park
das Krankenhaus	The hospital
die Denkmäler	The monuments
die Geschäfte	The shops
das Cafe	The café
das Restaurant	The restaurant

Opinion starters:

- Ich denke, dass = I think that
- Ich glaube, dass = I believe that
- Meiner Meinung nach = In my opinion
- Für mich = For me
- Ich mag = I like/Ich mag...nicht = I don't like
- Ich gehe lieber = I prefer going
- Ich sehe lieber = I prefer seeing
- Ich finde = I find

Ich denke, dass Bristol historisch ist. - I think that Bristol is historic
 Ich finde London ziemlich laut.=I find London quite loud
 Ich bevorzuge Bath, weil Bath ruhiger als Liverpool ist – I prefer Bath because it is quieter than Liverpool.

Phrases that use **infinitives**.

An infinitive is the basic form of the verb. In English it starts with to_ to run, to jump, to swim.

In German, the verb ends in **-en** or **n**. The infinitive goes to the end of the sentence

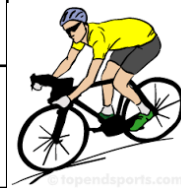
e.g., I will eat – ich werde essen

- Man kann = You can
- Ich werde = I will
- Ich muss = I must

} **These are followed by an infinitive.**

Man kann in die Stadt gehen– You can go to the town
 Ich werde in einem Restaurant essen– I am going to/will eat in a restaurant.
 Ich muss einkaufen gehen= I must go shopping

Pronoun	werden – to become (need to form future tense)
I	ich werde
you	du wirst
he/she/it	er/sie/es wird
we	wir werden
you (pl)	ihr werdet/Sie werden (polite + pl)
they	sie werden



ins Einkaufszentrum gehen to go to the shopping centre
 radfahren to cycle
 mit meinen Freunden ausgehen to go out with friends
 ins Kino gehen to go to the cinema
 die Museen besuchen to visit museums
 einkaufen gehen to go shopping

um...zu + infinitive = in order to

Ich gehe ins Einkaufszentrum, um einkaufen zu gehen – I go to the shopping centre to go shopping.

Ich gehe zum Park, um Fußball zu spielen – I go to the park, in order to play football.

Climate Graphs

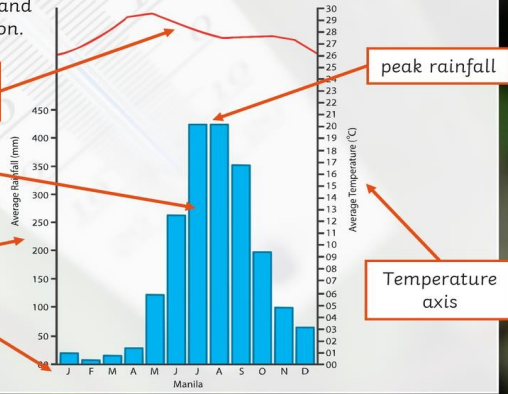
Climate graphs show the typical monthly rainfall and temperatures for a location.

Temperature is shown as a **line graph** (red).

Rainfall is shown as a **bar graph** (blue).

rainfall axis

months of the year



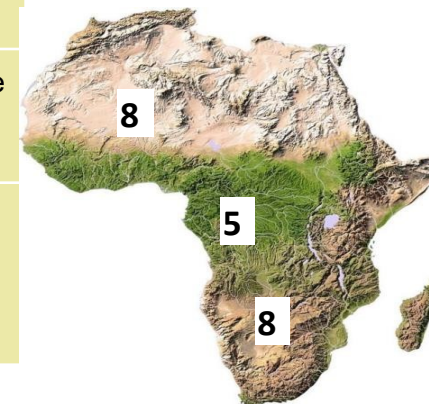
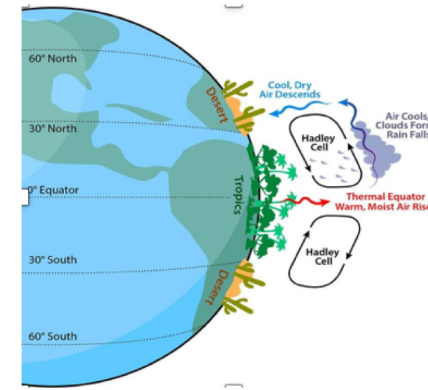
peak rainfall

Temperature axis

Year 8 Geography: Term 2

Are Africa's landscapes more than just 'The Lion King'?

Key Word	Definition
Biome	large area with the same plants, climate and animals
Hot desert	An area with little rainfall, high daily temps. and little vegetation
Savanna	A grassy biome between the rainforest and desert
Tropical rainforest	Found around the Equator. Dense trees, warm temperature and high rainfall.



Atmospherics leading to the location of biomes:

- 1 Incoming radiation from the sun is more focused at the Equator.
- 2 The warm air at the Equator then rises, and evaporates moisture too
- 3 As the air rises, it cools and condenses.
- 4 This creates clouds and convectional rainfall at the Equator.
- 5 This leads to tropical rainforests around the Equator.
- 6 Some air from the Equator is pushed both north and southwards, and is cooled.
- 7 The cool(er) and drier air descends.
- 8 This creates desert conditions around 30° north & south of the Equator.
- 9 Warm air then returns towards the Equator, due to surface winds (Trade winds).

Makgadikgadi & Nxai Salt Pans

Tourism in Botswana: The Salt Pans in Botswana are one of the largest salt pans in the world.

Okavango River Delta

It is a huge wetland area formed when the Okavango River flows into the Kalahari Desert during seasonal flooding.

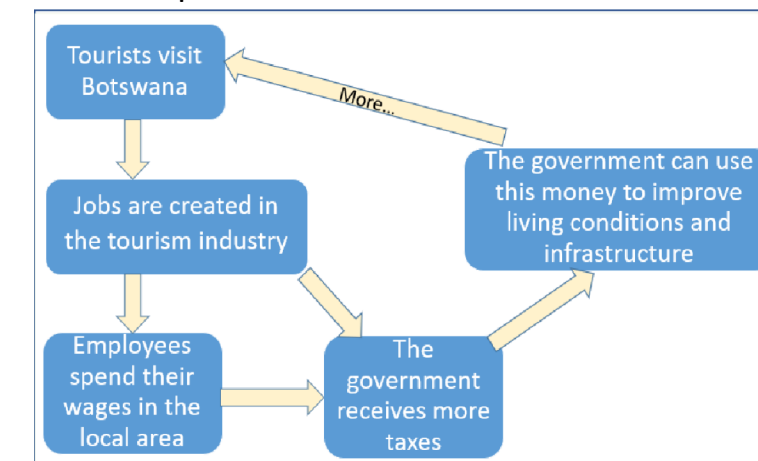
National Parks and Game Reserve Safaris

The Central Kalahari Game Reserve is larger than the Netherlands, & is the second largest game reserve in the world.



	Pros	Cons
Mass Tourism	<ul style="list-style-type: none"> -Lots of jobs created to cater for all of the guests. -Can lead to infrastructure improvement within the country eg. roads/electricity 	<ul style="list-style-type: none"> - Environmentally unfriendly. Eg lots of water used/wasted. - Places a huge strain on the environmental attractions.
Ecotourism	<ul style="list-style-type: none"> - Less damage environmentally. - More culturally sympathetic. - Aims to support local communities more. 	<ul style="list-style-type: none"> - Small scale so smaller profits. - Still suffers from the general problems of tourism eg leakage of profit out of Botswana.



The Multiplier Effect:



Enquiry

Migration Through Time – Romans to Present Day
 What factors have caused people to come to Britain?
 What have attitudes towards migrants been in Britain?

History – Year 8
 Knowledge
 Organiser
 Term 2

Key Terms

7	migration	Migration is the movement of people from one place to another. This can be internal or international.
8	refugee	A person who has been forced to leave their country in order to escape war, persecution, or natural disaster.
9	Conquer	To overcome and take control of (a place or people) by military force
10	Factors	Common reasons that cause change.
11	Commonwealth	An international association consisting of the UK together with some states that were previously part of the British Empire.
12	emigration	leaving one's own country to settle permanently in another; moving abroad.
13	racism	Prejudice or discrimination directed against someone of a different race based on the belief that one's own race is superior.
14	Huguenot	French Protestants.
15	Windrush	The people who emigrated from the Caribbean to Britain on the British ship the Empire Windrush in 1948.

Key Causes of Migration

1	Employment	Work/job.
2	Persecution	Hostility and ill-treatment, especially because of race or political or religious beliefs; oppression.
3	Empire	When one country rules over other countries, e.g. British Empire

Key Skills

4	change	make or become different than before.
5	similarities	Factors that are similar to each other within a defined period of time.
6	differences	Factors that are different across defined period of time.

Further Your Learning

Learn more about the often untold stories of migrants who came to and shaped the Britain we live in today.
<https://www.ourmigrationstory.org.uk/>



Timeline of Migration

Prehistoric – First People
 Wandered across the land bridge which linked Britain to Europe, 20,000BC.



Middle Ages – Normans - c1066
 William of Normandy invaded declaring he had a claim to the English throne.



19th century
Eastern European Jews 1880's
 Persecuted and fled to England. Many moved to the East End of London.



Present Day

20,000BC



Romans – 43AD-410AD
 Conquer new land, extend the Empire to obtain more goods and power. They also wanted revenge for British support of Gaul.



Early Modern – French Huguenots – 1670-1710
 Persecuted in Catholic France. Many were skilled craftsmen who set up businesses in England.

Modern – 1940s-1960s
Windrush Generation
 After WWII, Britain encouraged immigration from Commonwealth countries. This was to mainly help rebuild the country as there was a shortage of labour at the time.

SOLVING LINEAR EQUATIONS

Key Ideas

- The = sign tells us that everything on one side of this equals sign is **exactly the same** as everything on the other side
- The equation is **balanced**. Both sides are the same.
- Inverse operations** are used to 'work backwards' through the equation and find the value of the variable
- $\div 3$ and $\frac{\quad}{3}$ are the same mathematical operation (dividing by 3)
- Solving equations** means finding the **value** of the variable

Like terms are terms whose variables (such as x or y) with any exponents (such as the 2 in x^2) are the same.

Examples:

$7x$ and $2x$ are **like terms** because they are both "x".

$3x^2$ and $-2x^2$ are **like terms** because they are both " x^2 ".

But $7x$ and $7x^2$ are **NOT** like terms (the exponents are different), they are **unlike terms**.

$$5x + 9 + 3x - 2 = 8x + 7$$

<https://www.bbc.co.uk/bitesize/topics/zxjpn9q>

<https://vle.mathswatch.co.uk/vle/>

Key Words

Inverse - Opposite in effect. The reverse of.

$$4x - 7 = 5$$

Inverse Operations	
Operation	Inverse
+	-
-	+
x	\div
\div	x
x^2	\sqrt{x}

Term - In Algebra a term is either a single number or variable, or numbers and variables multiplied together.

Equation - An equation says that two things are equal. It will have an equals sign "="

Operation - A mathematical process such as + - x \div

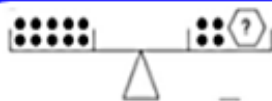
Variable - A symbol for a number we don't know yet. It is usually a letter like x or y

Solve - To find a value (or values) we can put in place of a variable that

Solution - A value we can put in place of a variable (such as x) that makes the equation true

Balance - When both sides have the same quantity or mass.

Algebraically - Using algebra



$$4x = 24$$

This represents the equation $10 = 4 + x$ $\frac{4x}{4} = \frac{24}{4}$ (Divide by 4 on both sides)

Therefore the solutions to this equation would be $6 = x$

$$x = 6$$

Solving 2-step equation

- Add or subtract to isolate the variable term.
- Multiply or divide to solve for the variable.
- Check your solutions.

Example:

$$3x + 5 = -16$$

$$-5 \quad -5 \quad \text{Subtract}$$

$$3x = -21$$

$$\frac{3x}{3} = \frac{-21}{3} \quad \text{Divide}$$

$$x = -7$$

$$3(-7) + 5 = -16 \quad \text{Check}$$

Solving 2-step equations

- Simplify each side
- Eliminate the variable from the right side
- Eliminate the constant term from the left side
- Divide each side by the coefficient

Example:

$$3(x + 1) = 5 + x$$

$$3x + 3 = 5 + x$$

$$2x + 3 = 5$$

$$2x = 2$$

$$x = 1$$

Example:

$$2(x + 2) - 5 = 3(x + 1)$$

$$2x - 1 = 3x + 3$$

$$-x - 1 = 3$$

$$-x = 4$$

$$x = -4$$

$$5(x - 4) = 2(x - 11)$$

$$5x - 20 = 2x - 22$$

$$\frac{-2x \quad -2x}{3x - 20 = -22}$$

$$\frac{+20 \quad +20}{3x = -2}$$

$$\frac{3x}{3} = \frac{-2}{3}$$

$$x = -\frac{2}{3}$$

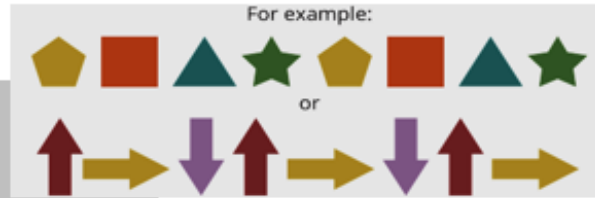
<https://www.bbc.co.uk/bitesize/topics/zxjpn9q>

<https://vle.mathswatch.co.uk/vle/>

SEQUENCES

Key Idea

Sequences are patterns of numbers or shapes that follow a rule.

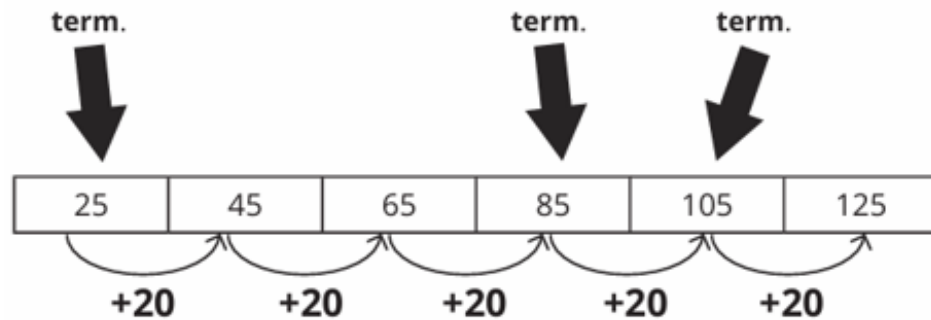


Sequence:



Linear Sequences

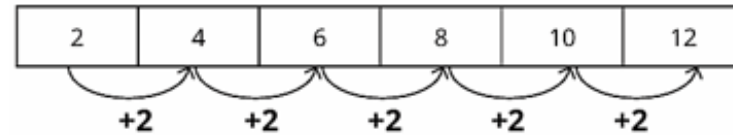
A linear number sequence is a sequence where each value increases or decreases by the same amount each time



Each number in a linear number sequence is called a term

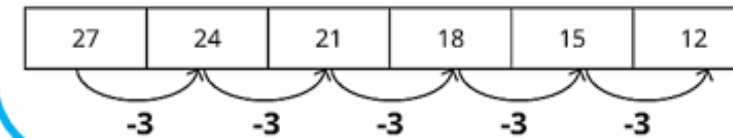
Arithmetic Sequences

Arithmetic sequences add or subtract the same number each time.



Rule:

Add 2 to the previous term

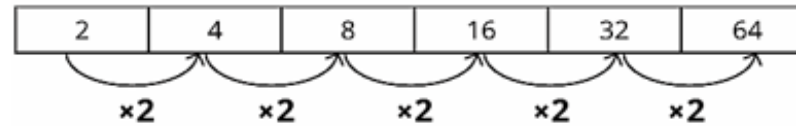


Rule:

Subtract 3 from the previous term.

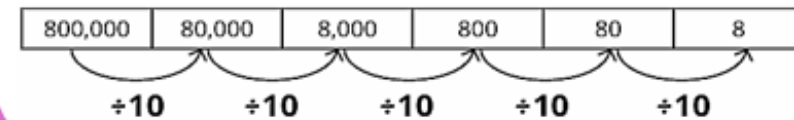
Geometric Sequences

Geometric sequences multiply or divide by the same number each time.



Rule:

Multiply the previous term by 2



Rule:

Divide the previous term by 10

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<https://vle.mathswatch.co.uk/vle/>

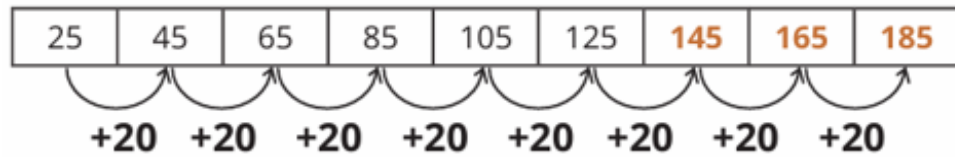
SEQUENCES

Term-to-Term Rule

The constant change between each number is called the term to-term rule. To identify the term-to-term rule, find the difference between two adjacent terms.

When you know the term-to-term rule, you can use it to find the next number in the sequence.

The term-to-term rule is '+20' so the next 3 terms are:



It can also be used to find a missing number within a sequence.

The term-to-term rule is '-10' so the missing terms are



Does the number 48 appear in the sequence $3n + 12$?

We need to setup an algebra equation

$$\begin{aligned}
 3n + 12 &= 48 \\
 -12 & \quad -12 \\
 \hline
 3n &= 36 \\
 +3 & \quad +3 \\
 \hline
 n &= 12
 \end{aligned}$$

Because our answer is an integer, this means it does appear in our sequence. It is the 12th term in the sequence.

Does the number 70 appear in the sequence $3n + 12$?

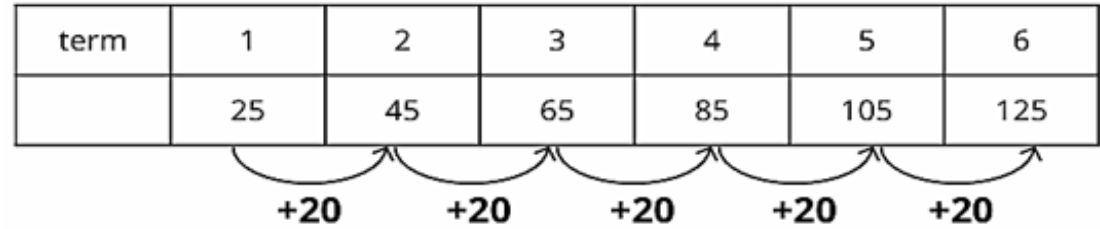
Again, we setup an algebra equation

$$\begin{aligned}
 3n + 12 &= 70 \\
 -12 & \quad -12 \\
 \hline
 3n &= 58 \\
 +3 & \quad +3 \\
 \hline
 n &= 19.3
 \end{aligned}$$

Because our answer is not integer, means it does not appear in the sequence.

Nth Term

The 'n' in *nth* term represents an unknown number. The *nth* term rule allows you to find any number in a sequence.



1. Find the common difference. Each term is increasing by 20 every time. This tells you that it's the same as the 20 times table, with some addition or subtraction.

term		1
	5	25

2. The 20 times table would be written as $20n$.

3. To complete the rule, you need to find the previous term:

ⁿ -20

4. If the previous term is a positive number (a number above 0), we can add this on to the $20n$ to make the rule $20n + 5$. If it is a negative number (a number below 0), we would subtract it from the $20n$.

5. We can check this makes sense by replacing the *n* with a term:

$n = 1$ become

$$20 \times 1 + 5 = 25$$

term	1	2	3	4	5
	25	45	65	85	105

$n = 2$ becomes

$$20 \times 2 + 5 = 45$$

Elements of Music



Year 7 – Topic 1

RHYTHM – The pattern of long and short beats

TEXTURE – How the layers of music fit together

TEMPO – The speed or pace of music

DYNAMICS – Loud or Soft

PITCH – How high or low a note is

TIMBRE – A description of the sounds or instruments being used

Term	Symbol	Meaning
Pianissimo	pp	Very Soft
Piano	p	Soft
Forte	f	Loud
Fortissimo	ff	Very Loud
Crescendo	<	Getting louder
Diminuendo	>	Getting quieter



Strings
EG - Violin



Woodwind
EG - Clarinet



Brass
EG - Trumpet



Percussion
EG - Drums

Semibreve – 4 Beats

Minim – 2 Beats

Crotchet – 1 Beat

Quaver – ½ Beat

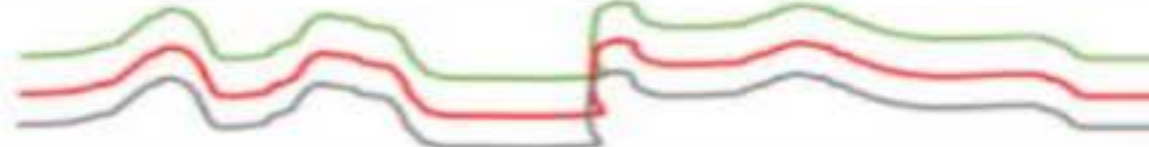
Semiquaver – ¼ Beat



Thin Texture
(Monophonic)



Thick Texture
(Homophonic)



Complex Texture





Warm Ups

A warm up should be completed before any physical activity to prepare the body. There are two stages...

EXAMPLE

1 Gentle exercise



Jogging for example will increase heart rate and get the muscles moving

2 Stretching



Static and dynamic stretches help get the full range of movement needed so injury is prevented

Cool Downs



A cool down should be completed after exercise to help the body get back to how it was before exercise and aid recovery

EXAMPLE

1 Gentle exercise



Slow jogging for example will decrease the heart rate

2 Stretching



Static and dynamic stretches help stop the muscles becoming stiff and sore

Judaism Knowledge Organiser	Key facts	Key words	Quotes
Relationship with God	Abraham – God promised to look after the descendants of Abraham, give them the Promised Land and help them.	Covenant – agreement made between humans and God	Genesis 22:1-18 - I will surely bless you and make your descendants as numerous as the stars in the sky and as the sand on the seashore.
	Abraham – to show this promise, Abraham circumcised of all Jewish males	Moses – an important figure in Judaism who delivered the Jews out of slavery in Egypt.	
	Moses – God promised to free the Jewish people from slavery and make them His chosen people.	Noah – an important figure in Judaism who built an ark to survive the Great Flood.	
Founders	Abraham is the founder of Judaism, Christianity and Islam. It began due to the covenant that was made with God that they will become a 'great nation'.	Abraham – The founder of Judaism	Genesis 12:1-2 'I will make you into a great nation, and I will bless you'.
Festivals	Pesach is the festival of joy, even though it events of great sadness. The celebration involves meeting with the family.	Pesach – festival of the Passover celebrating the Jewish escape from Egyptian slavery.	Exodus 7:3 'I will harden Pharaoh's heart, and though I multiply my signs and wonders in Egypt'
	During Pesach, Jews will use a special plate called a Seder plate. This allows for families to share a feast.	Ten Plagues – problems that God sent down to persuade the Pharaoh to let the Israelites go.	
	Homes are spring cleaned, charity is given (maot chitim) and the first-born son attends the synagogue to study a portion of the holy texts.	Seder – the feast shared by Jewish families at the Passover festival	
Rites of passage	The Brit Milah ceremony happens 8 days after birth to all males in the Jewish community. This is to remember the covenant made with Abraham.	Brit Milah – celebrates the birth of a Jewish child. For a boy, at 8 days old, he is circumcised.	Genesis 17:13 – 'Whether born in your household or bought with your money, they must be circumcised.'
	Bar Mitzvah recognises that the young man has reached the age in that he takes responsibility for his religious acts.	Bar Mitzvah – the service for a Jewish boy to become a full member of the Jewish community	
Places of worship	A synagogue is a place of worship in Judaism. It was difficult for Jews to go to the Temple and so Jews went to the synagogue.	Synagogue – Jewish place of worship; means 'coming together'	Isaiah 65:7 - 'My house should be called a house of prayer for all people'
	The synagogue was a place of study and prayer.	Torah – first part of the Jewish scripture: Genesis, Exodus, Leviticus, Numbers and Deuteronomy	
Ways of living	The Shabbat was a sign linked to Moses for the covenant he made with God. It is the day of rest which begins at sundown on Friday and ending when the stars are out on Saturday evening.	Shabbat – the Jewish holy day which is kept special	Exodus 20:1-17 - Ten Commandments – e.g. 'You shall not murder.' 'You shall not commit adultery'. Exodus 23:19 - "Do not cook a young goat in its mother's milk."
	There are different laws about what is acceptable to do and eat, It is forbidden to eat pork as it is an unclean animal.	Kosher – proper or lawful for Jews. This could be in how they eat food e.g. meat and dairy must be separated.	
	Jews use the Decalogue as a guide to live their life by. This is why keeping Shabbat is important.	Decalogue – the Ten Commandments which were the laws given to Moses on Mount Sinai	

Breathing:

We breathe in order to get the oxygen into our bodies and to remove the waste product of carbon dioxide.

Breathing in is called inhalation. When this happens our diaphragm contracts and expands downwards. The intercostal muscles contract and pull the rib cage upwards and outwards. This increases the volume of the chest cavity. The decrease in air pressure inside the lungs causes air to be drawn into the lungs through the trachea.

Breathing out is called exhalation. When this happens our diaphragm relaxes and moves upwards. The intercostal muscles relax and the rib cage moves inwards and downwards. This increases the pressure inside the lungs. This causes carbon dioxide to be forced out of the lungs.

Respiration

Respiration is the process that living organisms use to release energy from glucose. It occurs in the mitochondria within our cells. We get glucose from food that we eat.

The equation for aerobic respiration is:

Glucose + oxygen → carbon dioxide + water + (energy)

The equation for anaerobic respiration is:

Glucose → Lactic acid (+ energy)

The glucose comes from our food and the oxygen comes from the lungs via the blood stream. Carbon dioxide is removed from the body via the bloodstream and then exhaled from the lungs.

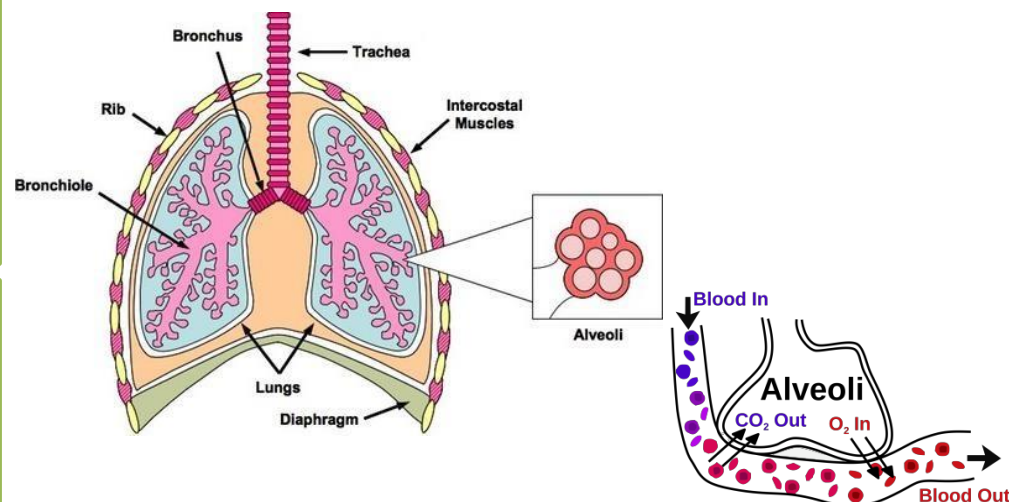
We use the energy created for many processes within our body:

MRS NERG → Movement, Respiration, Sensitivity, Nutrition, Excretion, Reproduction, Growth

The Respiratory System

The respiratory system is responsible for taking in oxygen and expelling carbon dioxide. The lungs are the organ where this gas exchange occurs. They are made up of many fine air tubes called bronchioles, which terminate in alveoli. Here oxygen diffuses into the bloodstream and carbon dioxide diffuses out.

Lungs are designed for absorbing oxygen as they have a huge surface area (alveoli), a rich blood supply, are moist (gases move in solution), and alveoli walls are thin so the gases do not have far to diffuse.



COPD and Alveoli

Chronic obstructive pulmonary disease (COPD) is a term used for a wide range of conditions including emphysema and chronic bronchitis. Emphysema causes the alveoli to change shape causing the surface area to become smaller. This causes the amount of gas exchange happening in the lungs is reduced. This causes people to become short of breath and they get tired quicker. There is no cure for COPD and it is a progressive condition.

Year 8 Block 2 Biology Knowledge Organiser Respiration and gas exchange

Revision guide Pgs: 11-13 (12-14 higher)

<https://www.bbc.com/bitesize/subjects/z4882hv>

Key Words:

Aerobic → respiration that uses oxygen

Alveoli → the small air sacs in the lungs that are the site of gas exchange

Anaerobic → respiration performed without oxygen

Asthma → a disease of the respiratory system

Breathing → the process of drawing in oxygen and releasing carbon dioxide

Bronchioles → the small air tubes in the lungs

Bronchus → the 2 main air tubes into the lungs

Calories → the unit of measuring energy in food

Carbon dioxide → the waste gas produced in respiration

Diaphragm → a membrane found at the bottom of the rib cage that helps with breathing

Digestive system → the system that breaks down food into useful molecules

Energy → The useful product of respiration that our bodies use for life processes

Glucose → the sugar used in respiration

Lactic acid → the waste product formed in anaerobic respiration

Lungs → the organs used for breathing

Oxygen → the gas used in respiration

Respiration → the chemical reaction that our bodies use to make energy

Respiration system → the system used to create energy in our bodies

Trachea → the scientific word for the windpipe

Core Practical: Lung volume and height investigation:

In the core practical an investigation was carried out to see if there was a relationship between height and lung volume.

Apparatus:

Meter sticks were used to measure height

Lung volume bags were used to measure lung volume



Method:

Each student measured their height and lung volume.

The class results were added to a table.

The results were then used to draw a graph.



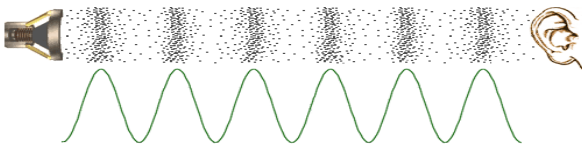
Variables:

Independent Variable: height

Dependent variable: lung volume

Control variables: both non smokers, both same age, both non asthmatic

- Sound travels as a longitudinal wave – oscillations parallel to the wave/energy direction
- An oscilloscope then converts this longitudinal wave into a wave that we can interpret to investigate the pitch, volume and frequency

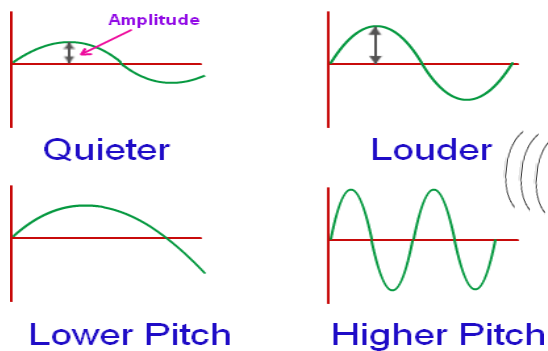


- Sound travels fastest in a solid. Particles can pass energy on quickly because they are arranged in a regular pattern and are tightly packed. Why does light travel slowest in air?

Label the wave above: **amplitude, wavelength, peak, trough**

Pitch and Volume

The shorter the wavelength, the higher the pitch.
The bigger the amplitude, the louder the sound.



Speed of sound in air:
340m/s

Microphones

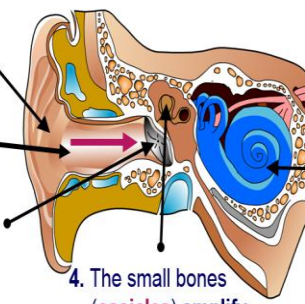
Mobile phones and telephones contain microphones. These devices contain a diaphragm, which does a similar job to an ear drum. The vibrations in air make the diaphragm vibrate, and these vibrations are changed to electrical impulses. These electrical signals can then be relayed through a loudspeaker.



Key Terms	Definitions
Waves	Oscillations or vibrations which have amplitude, wavelength and frequency. The top is the peak/crest and the bottom is the trough. Waves transfer energy but not matter.
Amplitude	The distance from the middle to the top (or bottom) of the wave – often referred to as the height of a wave.
Wavelength	The distance between one peak and the next and determined the pitch (high/low) of a sound.
Frequency	The number of waves passing a specific point every 1 second, measured in Hertz (Hz).
Loudness	Determined by the amplitude of the wave and is measured in decibels (dB).
Pitch	The pitch of a sound depends on the frequency.
Echo	A reflection of sound which can be used to calculate the distance
Ultrasound	Sound with a frequency greater than 20,000Hz, used to determine the depth of the ocean or produce images of inside the human body
Infrasound	Sound with frequency less than 20Hz, used by some animals for communication and by scientists to detect volcanic eruptions

Detecting Sound

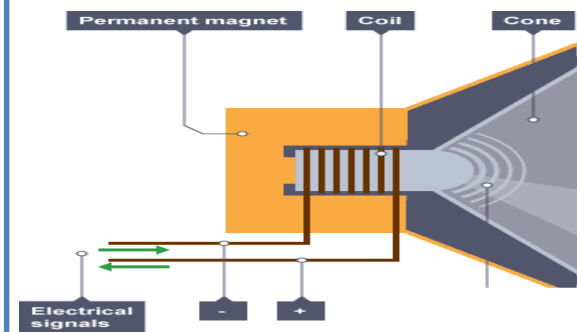
1. Sound waves are collected by the **outer ear** (or **pinna**).
2. The waves travel along the **ear canal**.
3. The waves reach the **eardrum** and make it vibrate.
4. The small bones (**ossicles**) **amplify** the vibrations.
5. The **cochlea** turns these into **electrical signals**.
6. The **auditory nerve** takes the signals to the **brain**.



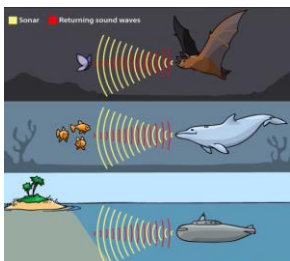
How does the ear work?



Loudspeakers



All vibrating objects produce sound. A loudspeaker is a device which converts electrical energy into kinetic energy (sound). This moves the cone, creating the sound wave.

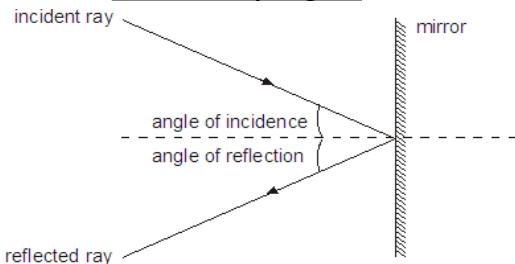


Use ray diagrams to show how images are formed – such as mirrors, pinhole cameras and the human eye

Reflection

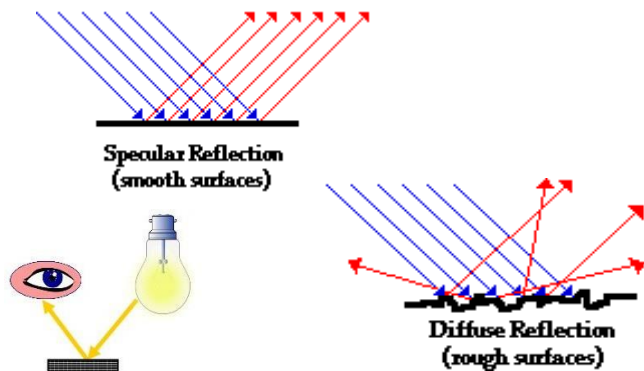
- You need light to reflect from an object for you to see it
- When light is reflected from a mirror, the angle of incidence is equal to the angle of reflection. This is the law of reflection.

Reflection ray diagram

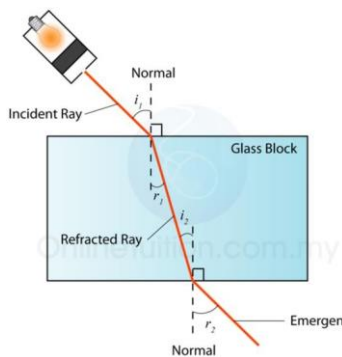


Diffuse scattering and specular reflection

Reflection from a smooth surface is called specular reflection. Reflection from a rough surface is called diffuse scattering.



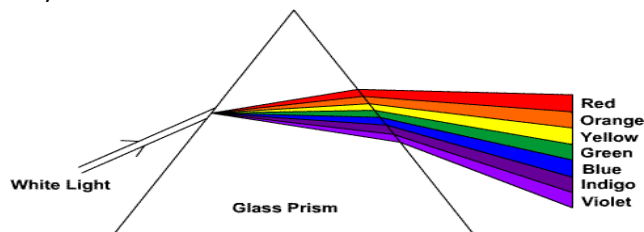
Refraction



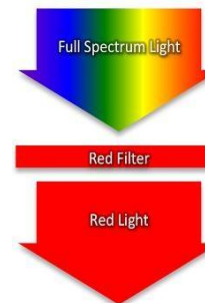
- When light travels through a glass block it slows down when it goes in and speeds up again when it comes back out
- Light bends towards the normal when it goes into glass and bends away from the normal when it comes out
- The two rays outside the block are parallel
- The changing direction of light is called refraction
- Light is refracted when it changes speed

Absorption of light

- White light is made up of seven different colours
- You can use a prism to split white light into a spectrum, this is called dispersion
- The spectrum of white light is continuous, there are no gaps between the colours
- Dispersion happens because different colours of light are refracted by different amounts
- Light with a higher frequency is refracted more than light with a lower frequency. So violet is refracted the most as it has the highest frequency and red is refracted the least.

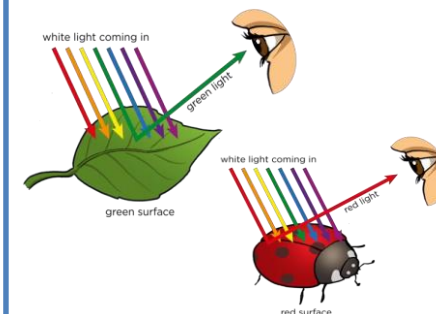


A filter removes the colours from white light leaving you with the colour you want, e.g a red filter transmits red light and absorbs all the others



Filtering light

- A filter removes the colours from white light leaving you with the colour you want, e.g a red filter transmits red light and absorbs all the others
- Any coloured object reflects the colour that it is and absorbs the rest
- Black objects absorb all colours
- White objects absorb no colours and reflect all the light



Key Terms	Definitions
Incident ray	The ray of light that hits the mirror or glass block from the ray box
Reflected ray	The ray of light that reflects off the mirror
Normal line	Imaginary line at 90 degrees to the mirror
Angle of reflection	The angle between the normal and reflected ray
Angle of incidence	The angle between the normal and the incident ray
Refraction	When light changes direction as it enters or leaves a different medium (material)
Emergent ray	The ray of light that leaves the glass block
Focus / focal point	The point where light rays cross

KPI 6.1: Describe how light interacts with different materials

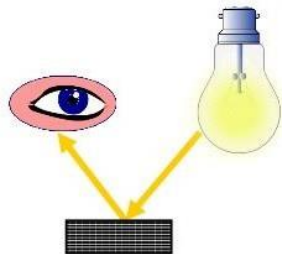
- Light travels as a wave
- Light moves very fast at 300 000 km/s in a vacuum
- Light can travel through gases, some liquids like water and some solids like glass.
- Light can travel through a vacuum, it doesn't need a medium to travel in. This is how light from the sun travels through space to reach the Earth.
- Light moves more slowly the denser the medium, so it's slower in a solid than in a gas.

Transmission of light through materials

Something that gives out light is luminous e.g. a lamp or the sun



Most objects you see are non-luminous, you see them because they reflect light into your eyes.

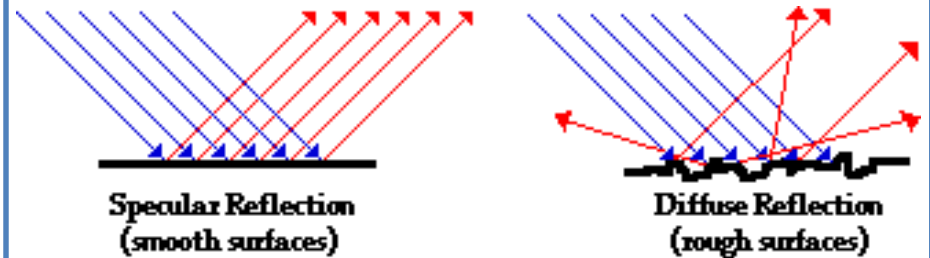


- When you look through a window light travels through the glass into your eye, the glass **transmits** the light
- Most of the light goes through the glass but a small amount is absorbed, the material is **transparent**
- Materials like frosted glass or tissue are **translucent**, light travels through them but is scattered so you can't see clearly
- Materials that do not transmit light are **opaque**

Key Terms	Definitions
luminous	Something that gives out light
transparent	Materials you can see through
translucent	Materials light can travel through but is scattered, so you cannot see clearly
opaque	Materials that do not transmit light, they produce shadows
emit	Gives out light
Light year	The distance light travels in one year
vacuum	Contains no particles

Diffuse scattering and specular reflection

Reflection from a smooth surface is called specular reflection. Reflection from a rough surface is called diffuse scattering.

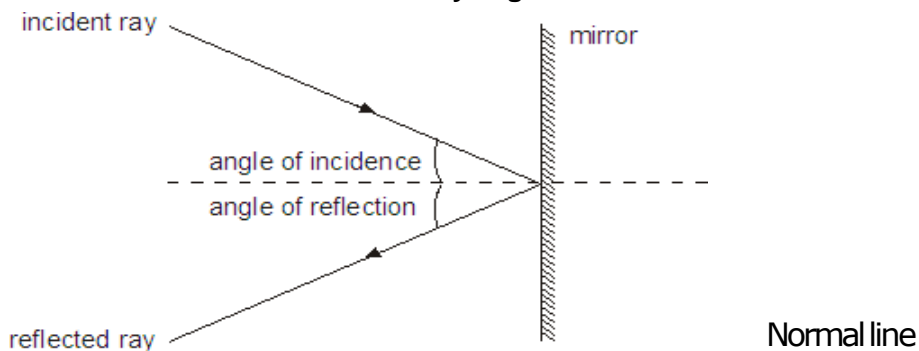


To form an image the rays from each part of the object have to reflect off the surface in the same way.

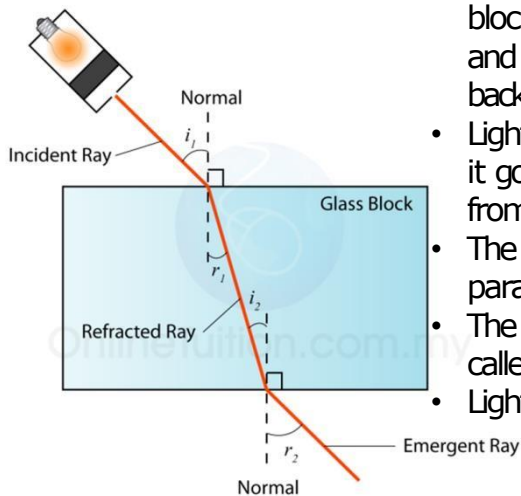
KPI6.2: Use ray diagrams to show how images are formed – such as mirrors, pinhole cameras and the human eye

- You need light to reflect from an object for you to see it
- When light is reflected from a mirror, the angle of incidence is equal to the angle of reflection. This is the **law of reflection**.

Reflection ray diagram



Refraction

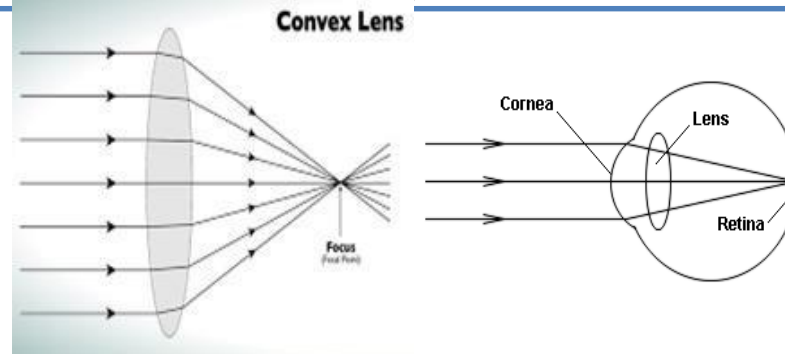


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- Light bends towards the normal when it goes into glass and bends away from the normal when it comes out
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Key Terms	Definitions
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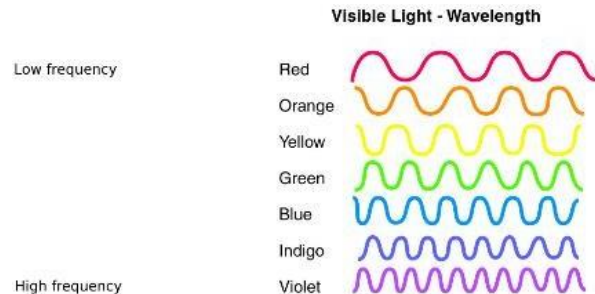
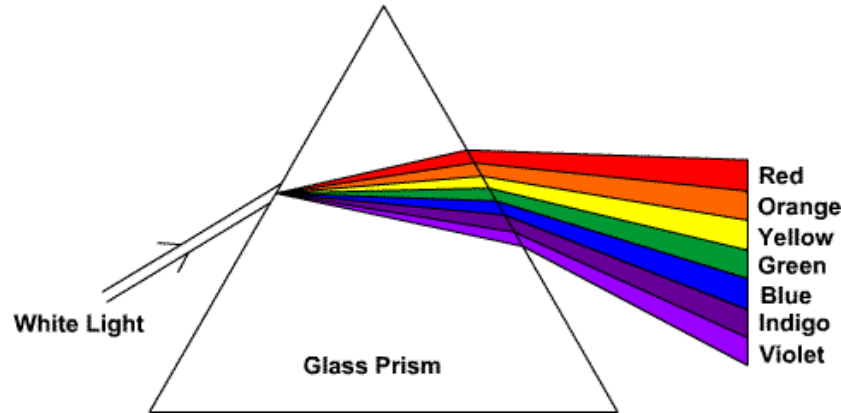
Lenses

- There are two types of lenses, **convex** and **concave**
- The lens in your eye is a **convex** or a converging lens
- Light is refracted as it goes into the lens and as it comes out
- The point where the light rays cross is called the **focus**

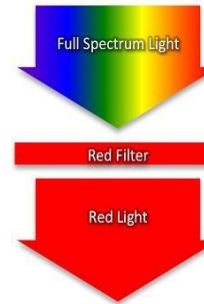


KPI 6.3: Describe the effects of absorption of light in terms of energy

- White light is made up of seven different colours
- You can use a **prism** to split white light into a **spectrum**, this is called **dispersion**
- The spectrum of white light is continuous, there are no gaps between the colours
- Dispersion happens because different colours of light are **refracted** by different amounts
- Light with a higher frequency is refracted more than light with a lower frequency. So violet is refracted the most as it has the highest frequency and red is refracted the least.

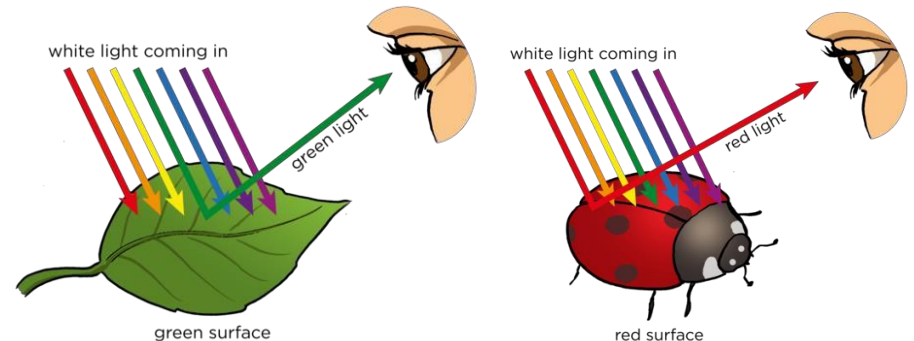


Key Terms	Definitions
Spectrum	White light split into it's seven colours
Filter	Removes colours from white light
Prism	Pyramid shapes glass object used to split white light
Dispersion	the separation of white light into colours according to wavelength
Pixels	Photosensitive picture elements on a grid at the back of a digital camera



- A **filter** removes the colours from white light leaving you with the colour you want, e.g a red filter transmits red light and absorbs all the others

- Any coloured object reflects the colour that it is and absorbs the rest
- Black objects absorb all colours
- White objects absorb no colours and reflect all the light



Opinion starters:

Pienso que	I think that
Creo que	I believe that
En mi opinión	In my opinion
Para mí	For me
Me parece que	It seems to me
Encuentro	I find

Pienso que Bristol es histórico - I think that Bristol is historic
 Encuentro Londres bastante industrial – I find London quite industrial.

Prefiero Bath porque es menos turístico que Liverpool – I prefer Bath because it is less touristy than Liverpool.

Phrases that use infinitives.

An infinitive is the basic form of the verb. In English it starts with to_ to run, to jump, to swim.

In Spanish the verb ends in –ar, -er , -ir.

e.g. I like to run – Me gusta correr.

Se puede	– One can	} These are followed by an infinitive.
Voy a	- I am going to	
Me gusta	- I like	

Se puede ir al centro – One can go to the city centre.

Voy a comer en un restaurante – I am going to eat in a restaurant.

Me gusta jugar al fútbol en el parque - I like to play football in the park.

	Ir – to go
I	Voy – I go / I am going
you	Vas – You go / you are going
he/she/it	Va – he goes / he is going
we	Vamos – we go / we are going
you (pl)	Vais – you (pl) go / are going
they	Van – they go / are going



Hay (there is) and no hay (there is not) – these phrases are very important to allow us to say what is in our town or city.

Remember! When using no hay there is no un/una

e.g. **Hay un** parque but **no hay** parque

It is important to use the correct **article** in front of a noun. This will depend on if we want to say ‘a’ (indefinite article) or ‘the’ (definite article), and also in Spanish if the noun is **masculine, feminine, singular or plural**.

Articles	A/some	The
Masculine	Un	El
Feminine	Una	La
Masc Plural	Unos	Los
Fem Plurl	Unas	Las

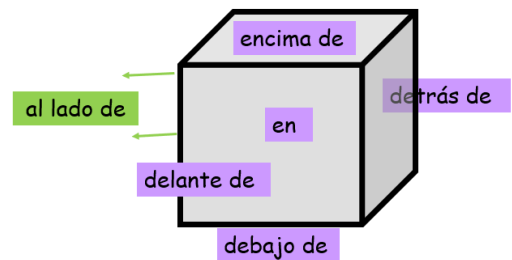
¿Dónde vives? (Where do you live?)

Vivo ... (I live)	en una casa (in a house)	en el campo (in the countryside)
	en las montañas (in the mountains)	en la costa (on the coast)
	en la ciudad (in the city/town)	en las afueras (in the suburbs)
	en un apartamento (in a flat)	en un pueblo (in a village)
		en el norte (in the north)
		en el sur (in the south)
		en el oeste (in the west)
		en el este (in the east)



My home! Year 8 - 8.6 Spanish

OPINION	NOUN	JUSTIFICATION	INTENSIFIERS	ADJECTIVES
Prefiero I prefer	la playa (the beach)	porque es because it is	muy very	Pequeño/a (small)
Me encanta I love	la piscina (the swimming pool)	ya que es because it is	bastante quite	Grande (big)
Me gusta I like	la pista de hielo (the ice rink)		un poco a bit	Histórico/a (historic)
No me gusta I don't like	la mezquita (the mosque)		demasiado too	Tranquilo/a (peaceful)
Odio I hate	la iglesia (the church)	es it is		Turístico/a (touristy)
	la librería (the library)	son they are		Industrial (industrial)
	el centro (the town centre)			Cultural (cultural)
	el cine (the cinema)			Importante (important)
	el museo (the museum)			Animado/a (lively)
	el teatro (the theatre)			Ruidoso/a (noisy)
	el centro comercial (the shopping centre)			Contaminado/a (polluted)
	el polideportivo (the leisure centre)			Moderno/a (modern)
	el mercado (the market)			Bonito/a (pretty)
En mi opinion In my opinion	el supermercado (the supermarket)			
Pienso que I think that	el estadio (the stadium)			
	el parque de atracciones (the theme park)			
	el hospital (the hospital)			
	los monumentos (the monuments)			
	las tiendas (the shops)			
	los restaurantes (the restaurants)			
	la oficina de turismo (the tourist office)			



Un ordenador esta **encima de** una mesa (a computer is on the table)

Describe donde vives Describe where you live

En mi casa In my house	tengo I have
En mi apartamento In my flat	no tengo I don't have
En el primer piso On the first floor	hay There is
En el segundo piso On the second floor	no hay There isn't
En la planta baja On the ground floor	

un jardín (a garden)
una buardilla (a loft)
un despacho (an office/a study)
un garaje (a garage)
un salón (a lounge)
una entrada (a hallway)
una cocina (a kitchen)
un dormitorio (a bedroom)
un comedor (a dining room)
un baño (a bathroom)
una terraza (a terrace)
unos aseos (some toilets)
el dormitorio de mis padres (my parent's bedroom)

¿Qué hay en tu habitación? (What is there in your bedroom?)

Una cama (a bed)
Una pared (a wall)
Un escritorio (a desk)
Un ordenador (a computer)
Un armario (a wardrobe)
una alfombra (a carpet)
Una estanteria (a shelf/shelves)
Una lampara (a lamp)
Una puerta (a door)
Una silla (a chair)
Una ventana (a window)
Una comoda (a chest of drawers)
unos poster (some posters)

My home! Spanish Year 8 - 8.6

¿Dónde vives? Vivo ... en una casa en un apartamento en el campo en las montañas en la costa en la ciudad en las afueras en un pueblo en el norte en el sur en el oeste en el este	Where do you live? I live In a house In a flat In the countryside In the mountains On the coast In the city/town In the suburbs In a village In the north In the south In the west In the east
--	--

¿Dónde está? en debajo de delante de detrás (de) entre al lado de enfrente cerca de	Where is...? On/in under in front of behind between next to opposite near to
--	---

¿Qué se puede hacer? ¿Qué vas a hacer? Se puede... Voy a ... ir de paseo visitar museos comer en un restaurante descansar en la playa quedar con amigos	What can you do? What are you going to do? You can... I am going to... Go for a walk Visit museums Eat in a restaurant Rest on the beach Hang out with friends
---	--

¿Qué hay en tu casa? Hay.... No hay... Un jardín Un garaje Un salón Un pasillo Un dormitorio Un comedor Un cuarto de baño Una cocina Una terraza Una oficina/un despacho Los baños El dormitorio de mis padres En la primera planta En la planta baja Arriba

What is there in your house? There is / are... There isn't... A garden A garage A living room A hall A bedroom A dining room A bathroom A kitchen A terrace An office/study Toilets My parents' bedroom On the first floor On the ground floor Upstairs
--

¿Qué hay en tu dormitorio? Una cama Un escritorio Un ordenador Un armario Un estante Una lámpara Una mesa Una puerta Una silla Una televisión Una ventana Una cómoda Una moqueta Unos pósteres

What is there in your bedroom? A bed A desk A computer A wardrobe A shelf A lamp A table A door A chair A television A window A chest of drawers A carpet Some posters

¿Qué hay en tu ciudad? En mi ciudad hay... la playa la piscina la pista de hielo la biblioteca la carnicería la comisaría la mezquita la iglesia la librería el centro el cine el museo el teatro el centro comercial el polideportivo el mercado el supermercado el estadio el parque de atracciones el hospital el puerto los monumentos las tiendas los cafés los restaurantes la oficina de turismo

What is there in your town? In my city there is... The beach The swimming pool The ice rink The library The butchers The police station The mosque The church The book shop The town centre The cinema The museum The theatre The shopping centre The leisure centre The market The supermarket The stadium The theme park The hospital The port The monuments The shops The cafés The restaurants The tourist information office

REMEMBER!

Any practical work you do at home, take photos and this can be classed as homework if there is evidence in your homework book!

Decorative Textile Techniques

Applique is the method of sewing pieces of fabric onto other fabric bases in beautiful designs. You can stitch the applique pieces by hand as well as by sewing machine.



Spray dyeing creates a speckled, graffiti effect on fabric. Try not to spray too close as it will not have the same effect on the fabric.



Dyeing involves adding colour to the fabric by way of soaking it in a solution of dye. You can dye a fabric fully or partially; Batik, tie and dye, shibori dyeing are all variations of dyeing fabric to bring about beautiful patterns on fabric surface.



Rubbings use natural textures to create interesting designs on to fabric, layer different colours to make your design more original.

Shaving foam marbling is a method of creating a marble effect, using shaving foam and acrylic paints. You can mix colours together to create a colourful design. Be careful not to overmix as this could result in to getting an all over brown colour.



Decorative stitches are created by selecting different stitch settings on a sewing machine, these are good to use in different colours to match your creative work. They can be sewn in a curved line as well as just sewing straight.



Year 8 Textiles Knowledge Organiser



The 4 Rs of sustainability

The UK wastes around £1 billion of clothing each year, which effects the environment we live in. A way to support the environment is to follow the four Rs of sustainability at home.

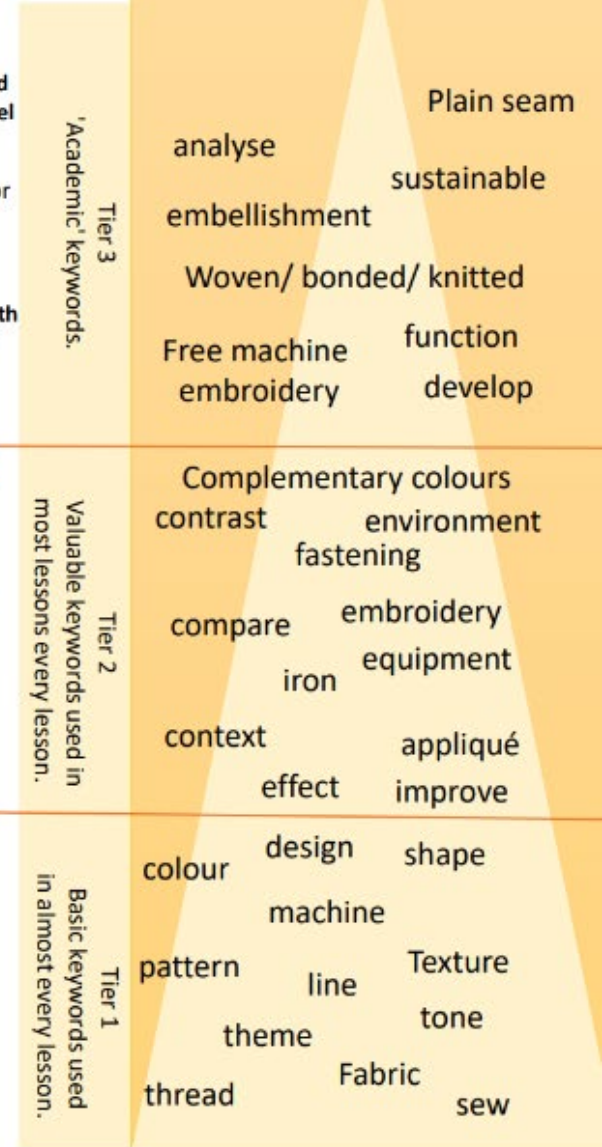
Recycle – Making unwanted clothing in to something new i.e. Jeans in to shorts.

Reduce – Buy high quality clothing which will last for longer.

Repair – If there is a rip or hole in your clothing, fix it by hand sewing it or adding a patch.

Reuse – If you no long want your clothing, donate it to a sibling or local charity shop.

Textiles Hierarchy of Key words



Use these in your writing and speaking

Use connectives to link each paragraph!	Explain an idea: <ul style="list-style-type: none"> Although Except Unless However Therefore 	Sequencing: <ul style="list-style-type: none"> Firstly Secondly Next Finally Since
Adding to: <ul style="list-style-type: none"> Furthermore Also As well as Moreover 	Cause and effect: <ul style="list-style-type: none"> Thus So Therefore Consequently 	Contrasting: <ul style="list-style-type: none"> Whereas Instead of Alternatively Otherwise Then again
To empathise: <ul style="list-style-type: none"> Above all Ultimately Especially Significantly 	To compare: <ul style="list-style-type: none"> Likewise Equally In the same way Similarly 	Give examples: <ul style="list-style-type: none"> Such as For example In the case of As revealed by For instance

Sentence starter phrases

Most people would agree...
 Only a fool would think...
 We all know...
 A sensible idea would be...
 The fact is that...
 Surely you would agree that...
 Without a doubt...
 I am certain that...
 Some people might argue...
 However...
 Also...

DESCRIBE



I believe that...
 I think that...
 The main idea is...

EXPLAIN



This means that...
 Therefore...
 This maybe because...

JUSTIFY



This is positive because...
 This is negative because...
 It is useful/not useful because...

ANALYSE



One strength is...
 One weakness is...
 One argument is...

EVALUATE



One advantage is...
 One disadvantage is...
 The best option is...

COMPARE AND CONTRAST



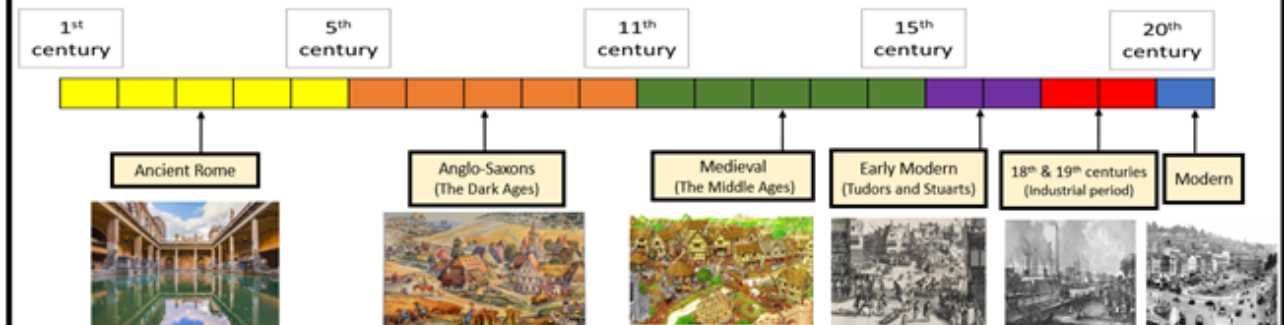
One similarity is...
 One difference is...
 On the other hand...

History Chronology Skills

- Historians rely on **chronology** (time order) to understand and divide up large periods of History.
- The timeline below shows the language used to describe the different periods of **British History**.
- Each block represents one **century** (100 years).

Century Formula = Add one '1' to the number of hundreds.

E.G: AD 150 = 1 + 1 = 2nd Century AD
 E.G: AD 1650 = 16 + 1 = 17th Century AD
 E.G: 500 BC = 5 + 1 = 6th Century BC
 E.G: 3000 BC = 30 + 1 = 31st Century BC
 When your date is 2 digits or less, it MUST be the first century AD/BC.
 E.g. AD 34 = 1st Century AD. 3BC = 1st Century BC.



Use these in your writing and speaking in DT



Design and Technology Keywords

Food and Nutrition	Design and Technology	Textiles
Caramelisation	Carbon footprint	Plain seam
Aeration Amino acids	Planned Obsolescence	analyse sustainable
Plasticity Shortening	Iterative Design Tolerance	embellishment
Coagulation Denaturation	Technology Push Anthropometrics	Woven/ bonded/ knitted
Gelatinisation	Consumer Social Footprint	Free machine function
Emulsification Pasteurisation	Ergonomics Forming Processes	embroidery develop
Unsaturated Protein	Aesthetics Target Market	Complementary colours
Radiation Saturated	Properties Deciduous	contrast environment
Conduction Carbohydrates	Automation Coniferous	fastening
Digest Deficiency	Automation Functionality	compare embroidery
Cross-contamination Convection	Primary Source Sustainability	iron equipment
Micro-organisms	Continuous Improvement	context appliqué
Flavour Claw grip	Cost Customer	effect improve
Texture Aroma	Materials Annotation	colour design shape
Energy Nutrients	Safety Product	machine
Appearance Bridge hold	Design Environment	pattern line Texture
Mix Smell	User Prototype	theme tone
		thread Fabric sew



Sentence Starters - DT

I have designed...because
My project was about...
I found... during my research
My design is suitable for...
I have learnt how to...
The most enjoyable part of my project was....
The area I found the most challenging was...
Equipment I have used include...
I would improve my work by...
I am pleased with my finished product because...

Sentence Starters- Food and Nutrition

In order to work hygienically/safely I made sure I
I worked safely when in the kitchen by...
If I could improve any skill, I would improve...because...
Overall, I am happy/unhappy with my progress/dish because....
The texture of my dish is... this is because...

Sentence starters- Textiles

I have designed....
The context of my design is...
My research is useful because...
By researching, I am able to.....
By researching I have found out....
I researched into....
My design is suitable for.....
My design is based upon...
I have planned to..
The order I will work in is...
The most enjoyable part of m project was...
The area I found most challenging was...
I am most pleased with...
I am pleased with my finished project because...
Equipment I used was...

The periodic table of the elements

1	2											3	4	5	6	7	0		
		Key relative atomic mass atomic symbol <small>name</small> atomic (proton) number										1 H hydrogen 1							4 He helium 2
7 Li lithium 3	9 Be beryllium 4											11 B boron 5	12 C carbon 6	14 N nitrogen 7	16 O oxygen 8	19 F fluorine 9	20 Ne neon 10		
23 Na sodium 11	24 Mg magnesium 12											27 Al aluminium 13	28 Si silicon 14	31 P phosphorus 15	32 S sulfur 16	35.5 Cl chlorine 17	40 Ar argon 18		
39 K potassium 19	40 Ca calcium 20	45 Sc scandium 21	48 Ti titanium 22	51 V vanadium 23	52 Cr chromium 24	55 Mn manganese 25	56 Fe iron 26	59 Co cobalt 27	59 Ni nickel 28	63.5 Cu copper 29	65 Zn zinc 30	70 Ga gallium 31	73 Ge germanium 32	75 As arsenic 33	79 Se selenium 34	80 Br bromine 35	84 Kr krypton 36		
85 Rb rubidium 37	88 Sr strontium 38	89 Y yttrium 39	91 Zr zirconium 40	93 Nb niobium 41	96 Mo molybdenum 42	[98] Tc technetium 43	101 Ru ruthenium 44	103 Rh rhodium 45	106 Pd palladium 46	108 Ag silver 47	112 Cd cadmium 48	115 In indium 49	119 Sn tin 50	122 Sb antimony 51	128 Te tellurium 52	127 I iodine 53	131 Xe xenon 54		
133 Cs caesium 55	137 Ba barium 56	139 La* lanthanum 57	178 Hf hafnium 72	181 Ta tantalum 73	184 W tungsten 74	186 Re rhenium 75	190 Os osmium 76	192 Ir iridium 77	195 Pt platinum 78	197 Au gold 79	201 Hg mercury 80	204 Tl thallium 81	207 Pb lead 82	209 Bi bismuth 83	[209] Po polonium 84	[210] At astatine 85	[222] Rn radon 86		

* The elements with atomic numbers from 58 to 71 are omitted from this part of the periodic table.

The relative atomic masses of copper and chlorine have not been rounded to the nearest whole number.





Subject websites

These websites will help you with homework, reading around the subject and revision

English

<https://www.sparknotes.com/> - *Macbeth, A Christmas Carol, An Inspector Calls*

<https://app.senecalearning.com/> - *Macbeth, A Christmas Carol, An Inspector Calls, Power and Conflict Poetry*

<https://www.bbc.com/bitesize> - *Macbeth, A Christmas Carol, An Inspector Calls*

Maths

<https://corbettmaths.com/>

<https://vle.mathswatch.co.uk/vle/>

<https://www.mathspad.co.uk/>

Science:

<https://www.bbc.com/bitesize>

<https://www.senecalearning.com/>

<https://www.memrise.com/>

Geography

Time for Geography - videos (mainly focused on physical processes)

Bitesize

Cool Geography

History

Seneca Learning

BBC bitesize - use Edexcel resources for GCSE.

Art Websites

<https://www.tate.org.uk/>

<https://www.bbc.co.uk/bitesize/subjects/z6f3cdm>

<https://www.incredibleart.org/>

Computer Science and IT.

www.mrahmedcomputing.co.uk

Drama

<https://youtu.be/VeTpob9LBM8>

<https://youtu.be/wISEU13mRBE>

<https://www.bbc.co.uk/bitesize/guides/zsf8wmn/revision/1>

DT:

<http://www.mr-dt.com/>

<http://technologystudent.com/>

<https://www.senecalearning.com/>

PE

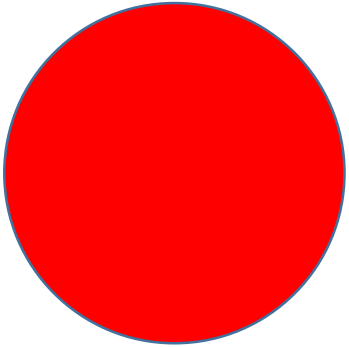
<https://www.bbc.com/bitesize/examspecs/ztrcg82>

<https://sites.google.com/view/ocrgcseperevision/home>

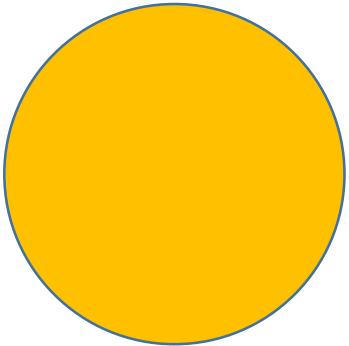
RS

KS3 <https://www.bbc.co.uk/bitesize/subjects/zh3rkqt>

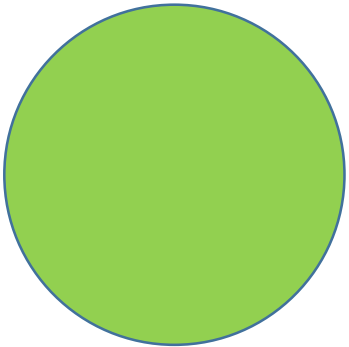
How would you describe your learning in this lesson?



I don't understand the learning in this lesson and would like some help



I am not confident with the learning in this lesson so might need some extra help.



I am confident with the learning in this lesson and can work independently

