



Year 7 Knowledge Organisers Autumn Term (Half term 1 and 2)





A Knowledge-Rich Curriculum at Lymm High School

Why are we using Knowledge Organisers?

Research around memory suggests that "knowledge is sticky": the more factual knowledge you know, the easier it is to learn more in future! But there is a catch: If knowledge is studied once, and not revisited or revised, it is not stored in long-term memory.

To strengthen your memory, and ensure information is stored permanently in your long-term memory, it must be revisited frequently. This means that after one lesson, or a single test, the knowledge is not fully embedded or learned unless it is studied again.

This is why your knowledge organiser is an important part of revising the essential information you learn in class!

Use of Knowledge Organisers for revision and in class

As part of their home learning, students should be revising what they have learned recently, but also content they were taught previously. Therefore, as part of our strategy to ensure that knowledge is embedded over time, we have developed knowledge organisers, which contain the 'bedrock knowledge' necessary in each subject area. A mastery of this knowledge will ensure that students can progress comfortably to new units of learning, and can be successful in their subjects.

This information will provide the basis of our assessments and exams, and so getting into good revision habits with these resources will ensure students feel as prepared as possible.

Teachers may set specific areas of each knowledge organiser as part of homework tasks on 'Satchel one' – formerly 'Show my Homework' – however students should be using their knowledge organiser for independent revision regularly.

For mastery of your subjects, remember:

"Don't practise until you get it right. Practise until you can't get it wrong!"

As well as supporting revision at home, this knowledge organiser should be kept in students' bags, and brought to school each day so that it can also be used and referred to in lessons.

CONTENTS (Subjects are arranged alphabetically) 3 How to use your Knowledge organiser Tier 2 Vocabulary 4 5 Art 7 **Design Tech** 13 **English** 17 Food Tech 20 French 23 Geography 25 History 30 IT 32 Maths 35 Music 37 **Religious Studies**

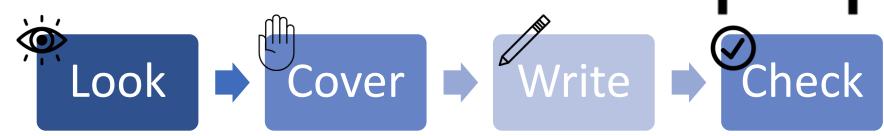
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Science



How to use your knowledge organiser:

Recommended strategies (<u>don't</u> just read or highlight – **get active**!):



- Create mind maps
- Create flash cards
- Write out key points on post-it notes and place somewhere visible so you see and review them regularly
- Write your own quiz questions based on your knowledge organiser leave until the next morning, next day, or next week to see how well you have retained the information
- Get someone else to test you
- Use key vocabulary from your KO in sentences
- Use the formulae, vocabulary lists, facts, processes etc on your KO to help you complete homework tasks
- Draw diagrams and flow charts of key information
- Summarise each section into your own words what are the MOST important facts or details in each box?
- "Just a minute" time yourself for 60 seconds. Can you talk about this topic or explain it to someone else without stopping for a whole minute?
- Draw images/symbols to represent the different concepts and vocabulary
- **Teach someone else** about this topic. Research suggests we retain even more information when we teach a topic than when we learn it or revise it.

Tier 2 Vocabulary – General academic vocabulary for success across all subjects



contract (n)

definition (n)

denote (v)

distribution (n)

economic (adj)

establish (v)

derived (from) (v)

formal, signed agreement

what something means

the spread of something

to do with wealth and

Confirm or create

coming from

stand for

money

something

"The limits of my language are the limits of my world" - Ludwig Wittgenstein							
List 1			List 2	List 3			
approach (v)	move towards/get closer	factors (n)	Influences/things involved in something	precise (adj)	exact		
assessment (n)	test	function (n)	the point of something/what it does	required (v, adj)	needed		
authority (n)	the person in charge/expert/power	identify (v)	pick out	response (n)	reply		

,		Tamesian (III)	something/what it does	roquirou (i, uuj,	
authority (n)	the person in charge/expert/power	identify (v)	pick out	response (n)	reply
available (adj)	free/not taken	indicate (v)	show	sector (n)	area
consistent (adj)	same every time	issues (n)	problems	significant (adj)	important

laws

work

important

chunk of time

viewpoint

way of doing something

Something which is done

(e.g. an operation)

legislation (n)

labour (n)

major (adj)

method (n)

period (n)

procedure (n)

perspective (n)

structure (n)

theory (n)

variable (n)

yearn (v)

youthful (adj)

subsequent (adj)

worthwhile (adj)

how something is put

An idea or belief (usually

supported by evidence)

A factor that might influence or change

To wish (usually for

something you've lost)

together

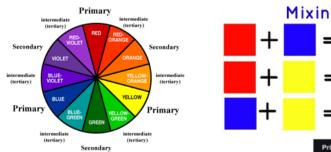
coming after

worth doing

young

YEAR 7 KNOWLEDGE ORGANISER - BASIC SKILLS

The colour wheel	This is a diagram that shows how colours are mixed or the relationship between colours.
Primary colours	Red, blue and yellow. These are colours that cant be made by mixing other colours together.
Secondary colours	Green, orange and purple. Mix two primary colours to create a secondary colour
Tertiary colours	These are colours create by mixing a primary and a secondary colour together.
Complimentary colours	These are colours that are opposite on the colour wheel.
Harmonious colours	These are colours from the same section of the colour wheel. These work well when blending.
Cool colours	Fall on one half of the colour wheel. Calm or soothing in nature. They are not overpowering and tend to recede in space. For this reason, they typically make a space seem larger.
Warm colours	Fall on the opposite side to the cool colours on the colour wheel.



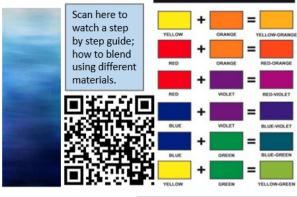
can be overwhelming.

Mixing colours Purple Orange = Green = + Secondary = Tertiary

They are vivid or bold in nature. They tend to advance in space and

Blending

- · Always start with the lightest colour and add the darker colour in small amounts
- Harmonious colours blend well together.
- Cross hatching is a good mark making method when blending dry materials.
- Wet materials should be mixed on a palette before blending.

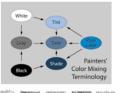




YEAR 7 KNOWLEDGE ORGANISER - BASIC SKILLS

Still life	A collection of objects arranged together.					
Tone	A tone is produced either by the mixture of a colour with grey, or by both tinting and shading					
Shade	The mixture of a colour with black, which increases darkness.					
Proportion	Proportion refers to the relative size of parts within a whole.					
Tint	The mixture of a colour with white, which increases lightness					
Mark making	Different lines, patterns, and textures we create in a piece of art. It applies to any art material on any surface, not only paint on canvas or pencil on paper.					
Composition	The position and layout of shapes on the paper.					
2 Dimensional	Having or appearing to have length and breadth but no depth.					
3 Dimensional	Having or appearing to have length, breadth, and depth.					

Recording from Observation Primary source observational drawing: drawing something real in front of you. Secondary source observational drawing: drawing something from a picture.





MARK MAKING IDEAS

here to watch a step by step guide; how to draw 3D shapes











Grades of Pencils

Pencils come in different grades. The softer the pencil the darker the tone.

H = hard, B = black (soft) In Art the most useful pencils are B, 2B and 4B. If your pencil has no grade it is likely to be an HB (hard black in the middle of the scale)

Making something look 3D

- To prevent objects looking flat, a range of tonal shading is essential to make objects look 3D
- Pressing harder and lighter with a pencil creates the different tones
- As a surface goes away from you the tones usually darken
- Shading straight across a surface will make an item appear flat Use the direction of your pencil to help enhance the 3D surface
- Including shadows will also help make objects appear 3D and separate objects from each other.

- · It is a Mexican holiday celebrated throughout Mexico and around the world in other cultures.
- · Dia de los Muertos: Spanish translation (language spoken in Mexico).
- · It focuses on gatherings of family and friends to pray for and remember friends and family members who have died.
- · It is particularly celebrated in Mexico, where the day is a bank holiday.
- The celebration takes place on October 31, November 1 and November 2, in connection with the Christian events Halloween etc
- · Traditions include: Building private altars called 'ofrendas'. Leaving gifts at the grave to honour the dead (Sugar skulls, marigolds, favourite foods of the dead). They also leave possessions of the deceased.
- The main emblem for the Day of the Dead festival is the skull.







Thaneeya McArdle (name is pronounced "tuh-nee-yuh").

- · An artist, designer and craftsperson from Florida.
- · She is most well known for her use of vivid colours and intricate symmetrical pattern work.
- · Draws and paints sugar skulls.
- · The work she produces is inspired by her travels around the world.

https://www.thaneeya.com (Thaneeya McArdles personal website) https://www.art-is-fun.com (Thaneeya

McArdles website in which she has hints and tips for drawing, painting and much more!)

Tone	A tone is produced either by the mixture of a colour with grey, or by both tinting and shading.
Scale	Refers to the size of an object (a whole) in relationship to another object.
Block Colour	One solid colour that does not differ in tone.
Line	A mark formed by drawing.
Symmetrical Pattern	Lines and shapes that are made up of exactly similar parts facing each other or around an axis
Composition	The position and layout of shapes on the paper.
Mono printing	A form of printmaking that has lines or images that can only be made once, unlike most printmaking, which allows for multiple originals
Scraffitto	A form of decoration made by scratching through a surface to reveal a lower layer of a contrasting colour.
Clay	Clay is the raw material used in ceramics. It is a versatile material that can be transformed into a variety of shapes.

What do I include on an artist research page?

- · Title (artist name)
- · Images of the artists work.
- · Facts/information and annotation

(include your own opinion)

- · Own drawings
- · Key words
- Consider creative presentation.



Try to make the page reflect the artists style.





https://www.youtube.com/watch?v=ECL662yPMlk Watch this tutorial to learn how to draw a skull.



LYMM

YEAR 7 KNOWLEDGE ORGANISER - DAY OF THE DEAD



Drawing accurately

The easiest way to ensure an image is drawn accurately is by using a square grid. Over your image draw a grid. On a separate piece of paper, re draw the grid and start to plot out your image square by square.

Enlarging an image by hand

You can also use a grid to enlarge an image. Your second grid should be double in size so that when you plot your drawing it increases.

What is a Diorama?

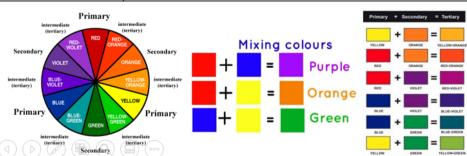
A diorama is a model which represents a scene or story with threedimensional figures.

Day of the Dead dioramas are based on the altars and retablos (devotional paintings) associated with the festival. They are made using tin or wood cages, known as nichos and contain collages of skeletons, skulls, flowers and photographs.





This is a diagram that shows how colours are mixed or the relationship between colours.
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Fall on the opposite side to the cool colours on the colour wheel. They are vivid or bold in nature. They tend to advance in space and can be overwhelming.



Design and Technology

Year 7 Material Focus: Timber & Timber Products

Types of wood.....

- STONYOU

You can have evergreen hardwood trees which do not lose there leaves and Deciduous tress which loses there leaves in Tend to have a tighter grain

Most evergreens are found in They can be very Expensive.

These are usually quite hard. They generally grow in They are slower growing trees it can take 100 years to grow fully enclosed in the fruit that trees and the seed are temperate climates including the British They are broad leave the tree produces Isles

tropical or sub-tropical countries such as South America

They mainly grow in a cooler climate like Canada

These cone baring trees are called conifers

They have a looser grain structure

They are often used as building material.

These are usually softer and easy to

The trees grow tall and straight which makes it easier for the manufacturer to cut long straight planks of wood

Evergreen trees which means they do not lose there leaves.

These grow quite faster and so are

Manufactured wood- Manufactured, or man-made,

wood is board produced using industrial production techniques. It consists of gluing together wood layers or wood fibres.

Manufactured boards are usually made in very large sheets. consistency in strength, workability and texture. Their plain Designers choose manufactured boards when they require appearance is often disguised by more decorative material.

Manufactured boards (man made woods)

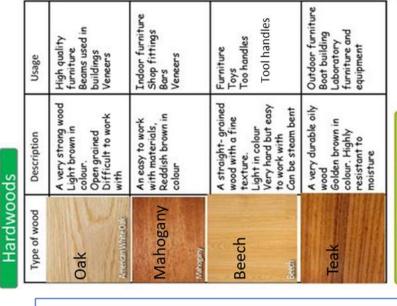
Type of wood	Description	Usage
MDF medium density fibre board	Smooth even surface. Easily machined and painted or stained. Also available in water and fire- resistant forms	Used mainly for furniture and interior panelling due to its machining qualities. Often veneered or painted
powid	A very strong board which is constructed of layers of veneer or piles which are glued at 90degrees to each other. Intenior and exterior grades available	Structural panelling in building construction. Furniture making. Some grades used for boat building and exterior work.
Hardboard	Avery inexpensive particle board which sometimes has a laminated plastic surface	Furniture backs, covering curved structures. Door panels
	Made from chips of wood glued together. Usually veneered or covered in plastic laminate	Kitchen and bedroom furniture when veneered or plastic laminated. Shelving and

manufactured how plywood code to learn Scan the QR



general DIY work





Type of wood	Description	Usage
Spruce	Creamy-white colour Has small hard knots Not very durable	General indoor work Used mainly for kitchens and bedrooms
Scots Pine	A straight-grained wood, but knotty. Light cream/ pale brown in colour Fairly strong but easy to work with. Inexpensive	Readily available for DIY Constructional work and simple joinery work
Parana Pine	Hard and straight grained. Almost knot free. Fairly strong and durable. Expensive Pale yellow in colour with red/brown streaks	Better quality pine furniture and fittings such as doors and staircases
Yellow cedar	A pale yellow colour with fine even texture Light in weight but stiff and stable	Furniture, amateur aeroplane building, boat building, veneers

processed.... how timber is code to learn Scan the QR



Manufacturing Processes

Tools and Equipment.....

CAD/CAM (Computer Aided Design/Computer Aided Manufacture)



Wasting Tools....

Coping Saw

Tenon Saw

Hack Saw

Cutting...



Drilling..

Pillar Drill

Shaping....

File



国际设置 表定义为 Scan the QR code to 注 learn how laser cutters

A drawing is sent from a CAD program such as 2D Design, to the laser cutter.

A laser cutter can cut through acrylic, laser plywood and some metals.

Drilling....

Counter Sink Drill **Twist Drill**





Holding....





Metal Vice

Bench Vice





Machine Vice

Bench Hook

Finishing.... **Glass Paper** Wet & Dry Paper Wood Oil (Wood) (Plastic & Metal)



Shading an object to look like wood....

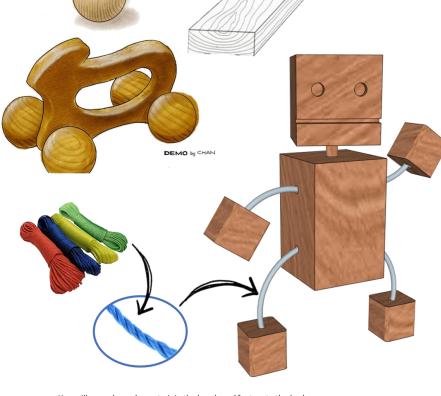
Shade the back ground colour of the wood first and then add the grain lines. Look at your pine wood to copy the detail of the grain lines.



BLOCK-BOT PROJECT

YEAR 7

Scan the QR code to learn how to shade a wooden texture.....



Grain lines are a pattern of fibres that

can be seen in a cut

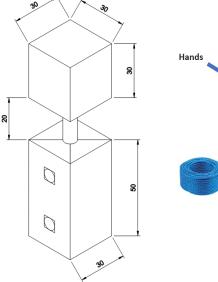
surface of wood

Grain Lines

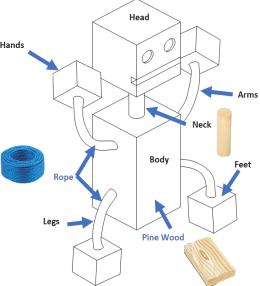
You will use coloured rope to join the hands and feet on to the body. Try to show what the rope will look like and shade it the colour that you would like it to be. The rope can be different colours for the arm piece and leg piece.

Isometric Drawing......

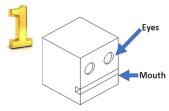
YEAR 7 **BLOCK-BOT PROJECT**



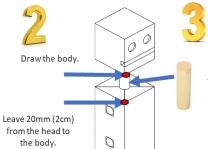
Block Bot with dimensions All dimensions in mm



Final Block Bot Isometric Drawing



Draw the head. Then add the detail of the eves and the mouth.



Then draw the neck. The neck is made from a piece of wooden dowel.



Then draw the hands and feet.



They will be connected with a piece of rope to create the arms and legs.



Product Analysis.....

Aesthetics

Does the product look good? Does it make good use of colour and

What has inspired it's appearance? (E.g. is it organic? Is it industrial?)

Cost

What is the estimated cost of the

What is the product's cost in relation

Customer

Who is the product designed for? How and where would they use it? What effect will it have on their lives and relationships? Will it add value?

How is the product promoted to attract customers?

Has the designer considered how people will interact with the product? Does the product target a particular age group or sector of people?
What assumptions have been made about the potential buyers/users?

Safety

How has the designer considered safety issues in the products design? Think about the ways it is being used and how different parts have been joined together.

Are there any risk assessment issues in relation to the use of the product?

Environment

What is the product's impact on the environment? What happens to the product after

use? How long will it last? What factors limit/lengthen its life

span? Can it be repaired? Can parts be replaced?

How easily can it be recycled? Who would pay for the cost of recycling?

Size

Are the product's proportions appropriate for its use? If you increased or decreased the products size, would it look or function better?

Function

Does the product do the job it was intended to do? How does it work? How easy is it to use? What effects will using it have, including those beyond intended use and user?

Material

What materials are used to make the product and why?
Would another type of material work

better? What impact could the designers choice of material have on the

environment? Where do the materials and other resources needed for production come from? Are they likely to run out?



Questions consider when analysing a product

9

KS3 Design Technology Sentence Starters - Annotation Support

Analysing Sentence Starters

I think that.....

I liked/disliked this design as.......

It would appeal to a target audience of.........

The strengths of this design are...... because........

The weaknesses of this work are...... because.......

Aesthetically this design......

The use of the colours...... means/allows.......

Design Explanation Sentence Starters

I have chosen the colours...... because

This product is designed to......

My product is made from......

What I like about my design is.......

My design follows the theme of.........

I could improve my design further by.......

Annotation

Negatives:

What are the negatives about your design?

Positives:

What parts of your design work well?

Improvements:

What could you change and improve about your design?

Environment:

What impact would your design have on the environment

Manufacture:

How would your design be manufactured?

Target Market:

Who would this design appeal to and why?

Materials

What materials would you use to create this?

Key Words

Design

Technology

Analysis

Investigate

Research

Generate

Develop

Model

Evaluate

Reflect

Manufacture

Sketch

Prototype

Aesthetics

Safety

Tenon saw

Coping saw

Pillar drill

Bench hook

Pine

Plywood

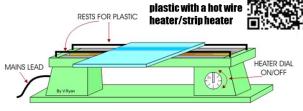
Describing Words

Accurate	Cheap	Curved	Fragile	Overlapping	Uneven
Attractive	Complex	Defective	Imaginative	Repeated	Smooth
Bland	Colourful	Delicate	Innovative	Rough	Subtle
Bright	Contrasting	Elegant	Interesting	Shiny	Suitable
Bulky	Creative	Geometric	Organic	Simple	Symmetrical

Manufacturing Processes

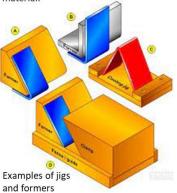
Line Bending....

Line bending is a process whereby a piece of plastic is bent along a narrowly defined "line". This process allows items such as display stands, leaflet dispensers, POS display, garden furniture, binders, POP display products and acrylic tables to be made from flat material.



Scan the QR code to learn how to bend

Hot wire heater/strip heater





To create bends

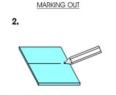








edges. Wet and dry paper may also be



The position of the fold is marked with a The plastic is placed across the rests, china-graph pencil. With this type of pencil above the heating element. the line can be removed easily later.







The strip heater is turned on and the plastic is turned over every 30 seconds - one minute. This stops the

USE FORMER/JIG



Fit plastic 'jig'. The jig is made to the correct angle, in the example - 90 degrees. Plastic is held in position as it cools.

QUALITY CONTROL



The quality of the formed plastic is

Thermoplastic: A type of plastic which becomes soft when heated and hard when cooled down.

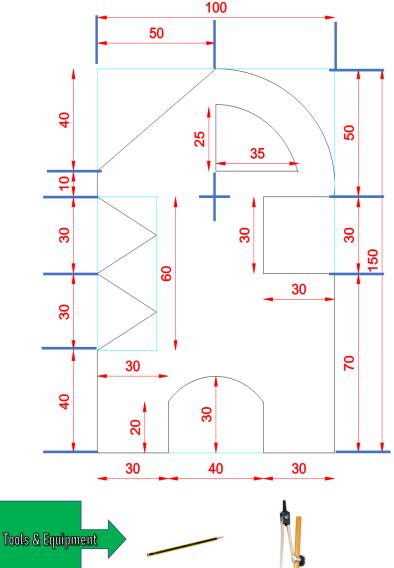
Acrylic. PVC and polystyrene are examples of thermoplastics.

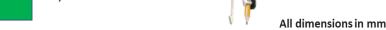
Scan the QR code to learn how to finish plastic



Driving Test

Use this diagram to draw an identical copy on to the plywood



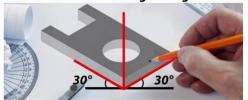


Drawing using construction points....



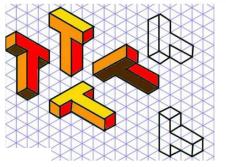
Isometric Drawing......

axes are drawn so that the two horizontal axes are drawn at 30 degree angles









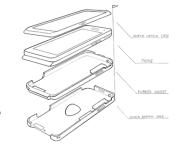
Exploded Isometric......

Exploded views

Exploded drawings are extremely useful when explaining a design / idea. The drawing opposite is a design for an educational toy (for a young child) has been drawn with all the parts disassembled. It is important when drawing an exploded view that all the parts line up with each other when disassembled. The vertical guidelines clearly show how the various parts are in line with each other. If an exploded drawing is constructed properly anyone looking at the drawing should be able to see how the various parts go together to form the finished design/object.



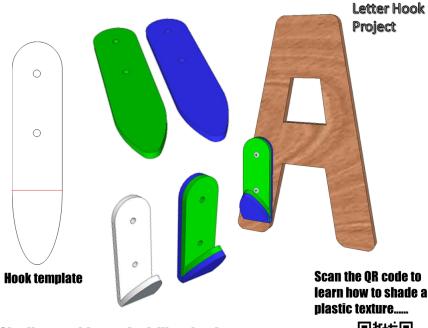




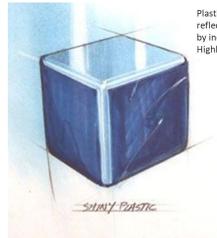
nloded nhone drawing



Exploded watch drawing......



Shading an object to look like plastic....



Plastics have a shiny surface that reflects the light. We show this by including 'highlights'. Highlights are white.







YEAR 7 GREEK MYTHS AND LEGENDS CREATIVE WRITING



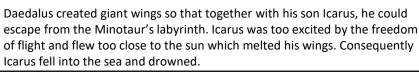
Ancient Greek Myths

Persephone



Forced to become the wife of Hades. Her mother Demeter was the goddess of the earth and pleaded with Zeus to have her daughter back. She won her daughter back but only for 6 months of the year (Spring) when she allows nature to flourish, and in Winter when Persephone went back to Hades, Demeter made nature die away (Winter).

Daedalus & Icarus





Prometheus is a Titan, who defies the gods by stealing fire and giving it to humanity, an act that enabled progress and civilization. As a punishment the immortal Prometheus was bound to a rock, where each day an eagle, the emblem of Zeus, was sent to feed on his <u>liver</u>, which would then grow back overnight to be eaten again the next day.

Prometheus



Theseus & the Minotaur



Theseus was the Prince of Athens and he put himself forward to fight King Minos's minotaur in his labyrinth. With the help of the King's daughter Ariadne he is successful. He is able to kill the minotaur and find his way out of the labyrinth.

Narcissus and Echo



Echo falls in love with Narcissus, but Narcissus doesn't feel the same. Echo proceeds to pine over Narcissus until her body withers away and only her voice is left. Meanwhile, Narcissus stops for a drink at a small pond. When Narcissus sees his reflection in the water of the pool he falls hopelessly in love—with himself. He is so in love with his reflection that he dies by the side of the pond.

Jason and Medea



In Euripides' tragedy, Medea, Jason divorces Medea so that he can marry Creon's daughter, GLAUCE and Creon orders Medea to leave Corinth. Medea sends her children with gifts for Glauce—a robe and a crown smeared with magic ointment that burn Glauce and Creon to death. Medea then kills the children as a final revenge on Jason.

Pandora



Pandora was the first mortal woman in Greek mythology, she was moulded by Hephaestus and endowed with gifts by all the other Olympian gods. One of these gifts was a jar full of all the evils and diseases which exist in the world; once Pandora married Epimetheus, she have used her head as a weapon against his enemies, since it Golden Age of Humanity.

Perseus

Perseus killed the famed monster Medusa, the hideous gorgon with snakes for hair who turned anyone with the misfortune of looking into her eves into stone. After he had slain Medusa. Perseus was said lifted the lid of this jar and set them all free, thus marking the end of the retained its power to turn to stone those who looked at it. Eventually Perseus gave Medusa's head to Athena to place on her shield



1. 1910 - 1710 BCE CREATION: Eurynome lays a cosmic egg which contains all life. She gives birth to the titans



2. 1710 - 1672 BCE GOLDEN AGE: Titan rule



3. 1672 - 1628 BCE SILVER AGE: Olympians



1628 - 1460 BCE BRONZE AGE: humans are warlike & unruly. Zeus kills them with a great flood



1460 - 1101 BCE **HEORIC AGE:** Heroes fight



1101 - 560 BCE man. It is foretold this wicked race will destroy themselves

Greek Mythology

50,000 BCE - 15,000 BCE 300,000 BCE - 50,00 BCE

15,000 BCE - 3000 BCE

3000 BCE - 0 CE

0 CE - 3000 CE

3000 BCE - 15,000 CE

The Oral Tradition Human beings have been telling stories since they first learned to speak. And even before we could speak, we managed to tell stories by drawing and painting pictures on the walls of the caves we lived in. These stories have been passed down, retold, translated, and adapted over time through the oral medium. They were passed down the generations, because everyone loves a good story! The communication is usually through speech or song and may include folktales, ballads, chants, prose or verses. In this way, it is possible for a society to transmit oral history, oral literature, oral law and other knowledge across generations without a writing system. Eventually they were written down.

be e.g. mystery, horror, bildungsroman, thriller, romance etc.)

freytag's pyramid

inciting incident

rising action

exposition

falling action

resolution

Key Word Glossary

Varied openings

A sense of pace

A moral purpose

Varied sentence structure

A sense of action – that

something is happening

Upgraded or ambitious vocabulary

Heroine

Hero

Moral

Myth Legend

events which, at the time, people were not able to understand such as earthquakes, floods and volcanic eruptions.

A legend is usually based on a true event in the past. Legends usually have a real hero at the centre of the story and are often set in fantastic places. The story will have been passed on from person to person,

A story that has been created to teach people about something important and meaningful. They were often used to explain the world and major

sometimes over a very long period of time. The fact that so many people have taken the trouble to keep the story

A woman admired or idealized for her courage, outstanding achievements, or noble qualities

A person who is admired or idealized for courage, outstanding achievements, or noble qualities:

Concerned with the principles of right and wrong behaviour and the good or evil of human character

alive usually tells you that it has some very important meaning for the culture or area in which the story was first told.

Words used to create sounds. E.g. 'click'

The most intense, exciting part of a text.

A text that is written in chronological order

The part of a text where problems are solved.

The presentation of problems that creates suspense.

The start of a text or extract

Words within the same sentence starting with the same letter or sound.

Myths had many purposes in Greek culture; many of

Origins and purpose of Mythology

which were to teach the Ancient Greeks about the world around them, including: Morality – many myths have a moral lesson. Good vs. Evil through the protagonist Vs

- Antagonist conflict. Teach about the Gods and Godesses of Ancient
- Greece. To demonstrate superpowers and the
- Attempt to understand the world and universe.

Protagonist The leading character or one of the major characters in a drama, movie, novel, or other fictional text.							
Antagonist		A person who actively opposes or is hostile to someone or something; an adversary					
Hubris	Ň	Excessive pride or self confidence.					
Checklist for effective narratives Language and Structural Features				res			
An attention grabbing first sentence					Verb	A word to describe an action or state	
Clear description of setting			Adverb	Dynamic verb	A word that describes continuous movement		
 Well described characters Information to establish tone/atmosphere Details to allow reader to understand what is happening 					Adverb	A word used to describe a verb or an adjective	
					Adjective	A word used to describe a noun	
(plot)	cader to anacistana i	what is happening		Noun	The name of a person, place or object		
 Use of enigma/mystery – questions that need answering A hook – a way to draw the reader in to the story – could be through the use of one of the other features Clear sense of genre (genre means what type of story it will 					Simile	a figure of speech involving the comparison of one thing with another thing of a different kind often using 'like' or 'as'	
					Metaphor Describing something as something else for effect		
					Personification	Giving an object human qualities	

Onomatopoeia

Alliteration

Exposition

Resolution

Climax

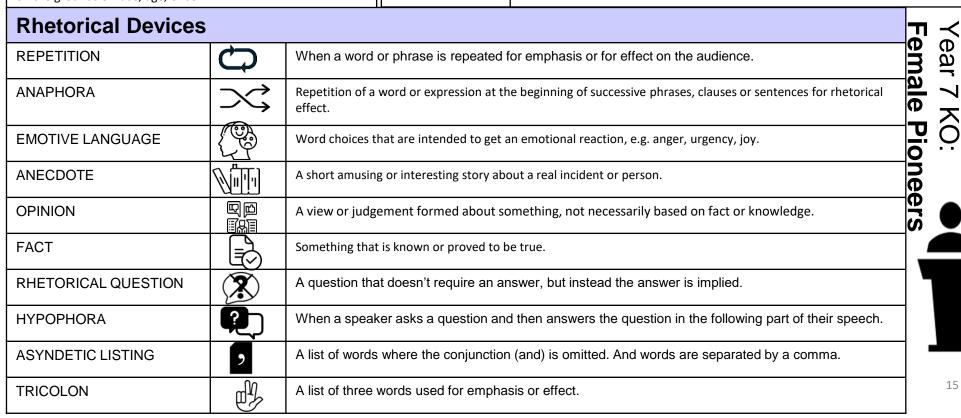
Linear

Rising Action

Structure

14

Key Concepts	Rhetoric				
Persuasion: the action or process of persuading someone or of being persuaded to do or believe something.		Aristotle said rhetoric is: "the faculty of discovering in any particular case all of the available means of persuasion." In order to persuade			
Point of view/viewpoint: a particular attitude or way of looking at an issue		effectively, a speaker must appeal to the ethos, logos and pathos of the audience.			
Line of argument: the reasoning used to support a particular idea or view.	Ethos (The character or emotions of a speaker or writer that are expressed in the attempt to persuade an audience.			
Inequality: when people are treated differently in society and as a result there is difference in the amount of power or influence they have.	Logos ()	The means of persuasion by demonstration of logical proof or reasoning that is real or apparent.			
Stereotypes: a widely held but fixed and oversimplified image or idea of a particular type of person or thing.	Pathos	The means of persuasion that appeals to the emotions of an audience.			
Discrimination: when people are treated negatively especially on the grounds of race, age, or sex.	__\				



(:) used to mark a major division in a sentence, to indicate that what follows provides extra He got what he worked for: he really earned those GCSEs. Colons detail. (;) used to show a division in a sentence where a more distinct separation is felt between I love ice cream; it is my favourite food. Semi-colons clauses or items. It is sometimes used to replace a connective in a sentence. A type of verb that expresses necessity or possibility. We **must** make a change to the way that we treat our planet so that future Modal verbs (must, shall, will, should, would, can, could, may, and might) generations will be able to see how beautiful it is. A word that refers to the participants in the conversation or to someone or something I believe that if we work together, this world will be a better place. **Pronouns** mentioned elsewhere (I, you, she, it, this)

It is called HeForShe. I invite

seen and to ask yourself, "If

you to step forward, to be

not me, who? If not now,

It's about freedom.

when?"

Grammar and Punctuation

Structure		
Counter argument	What someone who disagrees with you might say in response to your ideas/argument.	Admittedly, it has been argued that global warming is just a myth – but of course, such claims are completely absurd.
Topic sentence	A sentence that identifies the main idea of the paragraph	The facts about women and employment are clear.
Discourse markers	A word or phrase used to organize what we are saying in sections.	However, although, nevertheless
Effective openings	Grabbing the audience's attention with techniques that stand out and make people listen (e.g. short successive sentences, rhetorical question, setting the scene)	Imagine: a world with
Bookending	When your speech introduction and conclusion support your speech in a way that provides balance and creates structure.	Today we are launching a campaign called HeForShe. I am reaching out to you because we need your help.

A simple sentence, which often

remembered.

communicates clearly and is easily

Structure

Short

sentences

Women in Society

The Bible: According to the Bible, Eve was created from Adam's rib and, having eaten the forbidden fruit, was responsible for man's expulsion from paradise. In medieval art, the responsibility of women for this 'original sin', is often emphasised by giving a female head to the serpent who tempts Eve to disobey God. The story underlined the belief that women were inferior to men, and that they were morally weaker and likely to tempt men into sin.

Patriarchal Oppression: 'Wives, submit yourselves unto your own husbands, as unto the Lord, for the husband is the head of the wife; even as Christ is the head of the church... therefore as the church is subject to Christ, so let wives be subject to

their husbands in everything.' - Ephesians 5.22 – 24

The Doctrine of Separate Spheres:

- The public sphere was the domain of men, so they were able to freely move outside the home and participate easily in public life.
- The private sphere was where women belonged, taking care of household matters.

Women in Politics

Before 1918 no women were allowed to vote in parliamentary elections. In the early 20th century there were two main groups active in the campaign for women's suffrage, a term used to describe the right to vote. These two groups were the 'suffragists' who campaigned using peaceful methods such as lobbying, and the 'suffragettes' who were determined to win the right to vote for women by any means. Their militant campaigning sometimes included unlawful and violent acts which attracted much publicity. Women won the right to vote in 1920.

Modern Inequality: According for the Office for National Statistics (ONS), median hourly pay for full-time employees was 7.9% less for women than for men in April 2021.

2. Kitchen Safety

Cell starts Bacteria Cell is to split in cell now two two cells

Binary Fission



· Wash your hands before handling food, every 30 minutes and always

Cook raw foods to 75°C at the core, check it with a probe thermometer

· Keep worksurfaces, equipment & utensils clean and disinfected

Don't forget to clean dishcloths & cleaning equipment

Before Cooking:

1. Food Hygiene

- 1. Put your apron on
- 2. Roll your sleeves up
- 3. If you have long hair tie it back with a bobble
- Wash your hands with warm and soapy water
- 5. Dry your hands – moisture harbours bacteria

When Cooking:

Keep your cooking station neat and tidy

The Tidy Tick List:

- ✓ Clean and dry dishes
- ✓ No streaks and residue left on the glass bowls
- √ Clean dry work surfaces
- ✓ Clean sparkling hobs
- ✓ Clean cupboard doors and drawers
- ✓ Clean and dry sinks with no suds or residue food

Cross-contamination

Transferring bacteria from raw to ready to eat foods. Often through not washing hands or equipment after handling raw foods.

Conditions and practices that prevent cleanliness.

Hygiene

disease and illness through the act of

CHILLING

Reheat foods to 75°C

· Never reheat food more than once

COOKING

Cook thoroughly

CLEANING

Keep yourself and your hands clean

after going to the toilet

- Cool cooked food products as quickly as possible to 5°C
- Core temperature of cooked food must reach <10°C within 150 mins of end of cooking
- · Food must be protected from contamination while cooling

The 4C's

CROSS-CONTAMINATION

- · Always separate raw-food from ready-to-eat food
- Use separate equipment, chopping boards and utensils
- Wash hands thoroughly after handling raw food before ready-to-eat food

Use By

would cause illness.

The term used on The term used on products that must products that be eaten before or by the date stated. This term is used on high risk foods, where consumption look as good. past the stated date

Best Before

degrade slowly and can be eaten past the date stated but may not taste or

Kitchens can be dangerous places. To keep safe:

- Be aware of sharp equipment such as knives, peelers and graters- store them carefully and use the bridge hold and claw grip when chopping.
- Take care with hot equipment and food/liquids- turn pan handles in, always use oven gloves and avoid splashes when stirring or draining foods.
- Wipe up spills quickly so you do not slip over
- Be aware of others in the kitchen
- Report any accident

Claw Grip

Used to hold long and narrow ingredients. Knuckles are used to guide the blade while pressure is pushed downwards to hold the ingredient in place.



Scan to view a quick clip about cleaning work surfaces.

Bridge Grip Used to hold spherical and rounded ingredients. The knife can be placed safely between the arch of the hand.



Scan to view a quick clip on how to use an electronic scale.

3. Weighing and Measuring

Weighing and Measuring For good results in most recipes, accurate weighing and measuring is essential. When you are baking with flour, sugar and liquids, you must measure accurately or your cooking will be spoiled. If you weigh out too much sugar or too little raising agent, your cakes would not rise or you could spoil the taste and/or texture. Food can be weighed in Grams (g) and there are 1000g in a Kilogram (kg). Liquid is measured in Millilitres (ml) or litres













Scan to view a quick clip about "Use Bv" and " Best Before".





5. Healthy Eating



What are the 8 government guidelines for healthy eating?

- · 8 TIPS FOR EATING WELL.
- Base your meals on starchy foods.
- Eat lots of fruit and vegetables.
- · Eat more fish.
- Cut down on saturated fat and sugar.
- . Try to eat less salt- no more than 6g a day.
- · Get active and try to be a healthy weight.
- · Drink plenty of water.

Fruit and Vegetables

Nutrients- Vitamins and minerals

Examples-Strawberries, apples, carrots and cauliflower

Potatoes, bread, rice, pasta and other starchy carbohydrates Nutrients- Carbohydrates

Examples- Cereals, wholemeal pasta, brown rice

Dairy and dairy alternatives Nutrients- Calcium, Protein Examples- Milk, cheese, voghurt, almond milk

Beans, pulses, fish, eggs, meat and other proteins Nutrients- Protein Examples- Oily fish, chick peas, soya, eggs

Oils and spreads

Nutrients- Fats Examples- Olive oil, sunflower spread

Scan to view a quick clip about how carbohydrates help athletes when training.



Scan to view a quick clip about how protein helps athletes when training.

6. Electrical Equipment

Oven/Grill

symptoms are

generally less serious

and often limited to

digestive problems.

, **Hob** The hob is used for heating sauce pans, frying pans, griddle pans etc.

Dials The dials allow the user to change the settings of the hob, oven and grill.

Grill The grill uses the radiation method
 of cooking with food placed on a wire rack below. Heat can be increased or decreased using the dials.

—Oven The oven uses the convection method of cooking. Food can be placed on different racks within the oven. The dials control the temperature.

Using the Oven Safely

- Preheat the oven to the correct temperature. Use oven gloves to put food in and take food out.
- Set the timer to ensure food does not burn or under cook.
- Remove food using oven gloves.



<u>Salamander</u>

A salamander is a type of

grill. Electric or gas heating elements that look like pipes produce a very high heat which cooks the food placed below it. It is used in catering due to how quick it can cook food. Specific cooking techniques include; grilling, toasting, browning of gratin dishes, melting and caramelising.

Shelf

Food is placed on a baking sheet on this shelf. Handles on the shelf make it safer and easier to place food under the grill.

Hand Mixer

This equipment is used to mix dry and wet ingredients together. The mixer can be set to higher or lower speeds.

ectric Whisk Safely

Using the Electric Whisk Safely

- When inserting the beaters or removing them, make sure the mixer is not plugged into the mains.
- Only switch the mixer on and off when the beaters are submerged in the mixture.
- Keep hands and utensils and the electrical wire way from the beaters when in use.

Turn table

• When cleaning the device, remove and wash the beaters in hot water. Wipe the body of the mixer with a damp cloth only.

Scan to view a clip about how fats work.

Microwave

Ensures the door is securely closed so that no radio waves

osed so that radio waves escape.

Turns the food around to ensure radiation waves are evenly distributed.

Microwaves use radiation method of cooking. Particle's in the food are made to vibrate very fast which causes heat. Metal must never be placed in a microwave.

Food Processor A kitchen appliance



that can cut, blend, grate and mince ingredients. A food processor is different to a blender because you can change the blades to complete different tasks. You can also fit more food into a food processor. Little or no water is required to ensure the food particles move around the blade.

Beaters



Scan to view a clip about how fats help athletes.

18

	7. Cooking Methods									
	Braising Deep Frying		Sautéing	Flamb	Flambéing		Boiling		Simmering	
	Wet Slow	Dry Fast	Dry Fas	t Dry	Fast	Wet	Fast	Wet	Fast	
	Pieces of food are first browned in a little fat, then cooked with some liquid in a closed pan. Frying pieces of food in a deep pot or fryer with plenty of hot oil or fat.		Cooking small or thir pieces of food in very hot oil or far The frying pan is shaken constantly to stop the food from burning.	alcoho added food ir frying and se fire. Th	After frying, alcohol is added to the food in the frying pan and set on fire. This adds another flavour to the food.		Food is cooked in deep boiling liquid (water, stock, wine etc) in an open or covered saucepan.		Like boiling, but the liquid is kept just below boiling point in an uncovered pot.	
	Steaming	Stewing	Pan-frying	Broilin ng	Broiling/Grilli ng		Roasting		Baking	
		MILLIAM				(R)		× × × × × × × × × × × × × × × × × × ×		
	Wet Fast	Wet Slow	Dry Fas	t Dry	Fast	Dry	Slow	Dry	Slow	
Food is placed in a container and cooked in the steam from boiling water in a covered pan or steamer.		Cooking food in its own juices with a little additional liquid, in a covered pan at simmering point.	Frying food in a little oil or butter using a frying pan over a moderate heat.	Cookir like stefish, or under heat, e under oven g on a barbec hot pla	ver or open e.g. the grill or que or	Cookin like me poultry some f hot ov (betwe 200-24 degree centigi	y with fat in a en een een ees	Cookir like ca pies, b etc. in closed at a tempe of betv 120-24 degree centigi	read a oven rature ween 40	

Wet or Dry Cooking Methods refers to the texture of the ast cooked food so baking and frying are biur dry cooking st iling methods and boiling and stewing are wet methods. Slow Cooking

Wet or dry

Methods Fast and slow methods refer to how long it takes. Generally less than an hour is a fast cooking method and over an hour is a slow cooking

method

Fast or

This only happens in liquids and gases Conduction

Convection

Radiation

touching a piece of equipment, or a piece If you put a metal pan on an electric or This happens when heat is directly

> electro-magnetic waves. The waves are either infra-red or microwaves Infra-red heat waves are absorbed by the food when they reach it,

transfers energy through space by invisible

This occurs through space or air. Radiation

gas hob, the heat from the hob will heat up the base of the pan.

This happens when you put food under a grill.

and they create heat inside the food which

magnetron inside the oven. The microwaves

are absorbed by the food, making the

radiation. The microwaves are created by a

Cooking foods in microwaves also uses

- bad conductors of heat. Metal conducts and frying pans, along with baking trays There are good conductors of heat, and heat very well, which is why saucepans and cake tins, are made of metal.
- which is why boiling foods works well and cooks foods quickly Wood, plastic, cloth Water is also a good conductor of heat, and glass are poor conductors of heat.

microwaves and damage the magnetron so do

through glass, china and plastic, and do not heat them up. Metal will reflect the

molecules vibrate and heat up, which then cooks the food. Microwaves pass straight

not put metal object into a microwave oven.

The molecules of liquid or gas nearest the hot base of the pan gain heat energy, and As the liquid rises to the top of the pan, it will begin to cool again, so starts to drop back to the bottom, where it will be start to rise in the pan. heated up again.

- the pan. Convection currents also happen There is a convection current moving in in ovens.
- Hot air rises and cooler air falls.
- A convection oven uses a fan to move the heat around, so every part of the oven is approximately the same temperature.

lundi

Bonjour. Salut! Comment t'appelles-tu? Je m'appelle ... Comment ça va? (Ça va?)

Ça va (très) bien. Pas mal, merci. Ça ne va pas! Et toi? Au revoir.

Bonjour! Hello.

My name is ... How are you? (Are you OK?) I'm (very) well. Not bad, thanks. Not good! How about you?

Goodbye.

Monday

See you later!

Hi!

As-tu un animal?

As-tu des frères et soeurs?

Oui. J'ai ... un frère. une sœur. un demi-frère. (deux) frères. (trois) demi-sœurs. Je n'ai pas de frères et soeurs Je suis fils/fille unique. Quel âge as-tu? J'ai (onze) ans.

I have ...

a cat

a dog

a Guinea pig

a hamster

a rabbit

a lizard

a bird

a fish

a snake

I don't have a pet.

Have you got a pet?

Do you have any brothers or sisters? Yes. I have ... one brother.

one sister. one half-/step-brother. (two) brothers. (three) half-/step-sisters. I don't have any brothers or sisters I am an only child. How old are you?

I am (11) years old.

vert(e)

rouge

Les couleurs

treize quatorze blanc(he) white quinze seize bleu(e) blue dix-sept gris(e) grey dix-huit iaune vellow dix -neuf marron brown vingt noir(e) black vingt-et-un orange orange vingt-deux pink rose trente trente-et-un 31 violet(te) purple

green

red

Les jours de la semaine

À plus!

la (demi-)sœur

les parents

mardi Tuesday J'ai ... mercredi Wednesday un chat jeudi Thursday un chien vendredi Friday un cochon d'Inde samedi Saturday un hamster dimanche Sunday un lapin un lézard Décris-moi ta famille un oiseau la famille family la famille d'accueil foster family le (beau-)père (step-)father le grand-père grandfather le (demi-)frère (half/step-)brother le fils / la fille son / daughter la (belle-)mère step-mother la grand-mère grandmother

(half/step-)sister parents

un poisson un serpent Je n'ai pas d'animal.







les nombres

2

3

7

8

10

11

12

13

14

15

16

17

18

19

20

21

21

30

un

deux

trois

cinq

sept

huit

neuf

dix

onze

douze

six

quatre

<u>La rentrée</u> Unit

C'est quand, ton anniversaire? Mon anniversaire, c'est ... le (15 mars/24 juin) le premier janvier février mars avril mai juin iuillet août septembre octobre



When is your birthday? My birthday is on ... the (15th March/ 24th June) the first January February

March

April

May

June

July

August

October

September

November

December



Tu es comment?

il/elle est ... petit(e) grand(e) de taille moyenne il/elle a les yeux ...

bleus / verts / marron

il/elle a les cheveux ... noirs / blonds roux / gris / bruns

courts / longs / mi-longs

bouclés / raides une barbe des taches de rousseur des tatouages

il/elle porte des lunettes

he/she is ... small tall medium-sized he/she has ... eyes blue / green / brown he/she has ... hair black / blond red / grey / brown short / long / midlength curly / straight a beard freckles tattoos he /she wears glasses



J'aime ... I like ... Je n'aime pas ... I don't like ...

le sport sport le foot football le vélo cycling le collège school

le cinéma cinema

le poisson fish la danse dance

music

pizzas

snakes

la musique

Tu aimes ...?

les pizzas les serpents

les glaces

les BD

ice creams les jeux vidéo video games les vacances holidays comics les mangas manga les araignées spiders

Tu es comment?

novembre

décembre

fort(e)

grand(e)

intelligent(e)

méchant(e)

patient(e)

petit(e)

timide

Je suis ... I am ... Je ne suis pas ... I am not ... Il est/Elle est ... He is/She is ... amusant(e) funny arrogant(e) arrogant bavard(e) talkative/chatty

strong big/tall intelligent nasty/bad patient small/short

shy





Tu es comment? j'ai patient(e) Je suis (i have) et (I am) blonds bleus arrogant (e) II est marron verts et les cheveux il a les yeux (He is) noirs gris intelligent (e) (he has) Elle est roux (she is) de taille elle a (she has) moyenne As-tu des frères ou des soeurs ou un animal?

	un frère	qui	Joseph	et	Sophie	Il est	patient(e)
J'ai	un demi-frère	s'appelle	Amy		Elliot	(he is)	arrogant (e)
	deux sœurs	qui s'appellent	James		Lucy	Elle est	intelligent (e)
		заррепен			·	(She is)	de taille moyenne

Décris ta fami	ille							
Dans ma famille	ma mère	- 4	ma demi-	Ma mère	a	les cheveux longs	et	il / elle porte des lunettes
il y a	mon beau-père	et	sœur.	Mon beau-père		Les yeux verts		il / elle a des
(In my family there is)	ma grand-mère			Ma grand-mère				tatouages

Tu aimes...?

10.01111					
J'aime	le foot	mais	je n'aime pas	les pizzas	
	les mangas			la musique	2
	la danse			le vélo	_

Geography

INTRODUCTION TO GEOGRAPHY

Geography is... the study of the earth



We split Geography up into 3 categories:

	Definition	Examples
Human Geography	The study of how and where people live	Tourism Population How rich/poor we are
Physical Geography	The study of the earths natural features	Rivers Earthquakes Weather
Environmental Geography	The study of how humans affect their environment	Waste Pollution Global warming

In Geography we like to ask questions about what we are studying:

WHO Lived there?
WHAT Has happened?
WHEN did this
happen?
WHERE is this house?
WHY is half of it
missing?
HOW is it still

standing?



The 7 continents of the world:

- 1. North America
- 2. South America
- 3. Europe
- 4. Africa
- 5. Asia
- 6. Oceania/Australasia
- 7. Antarctica

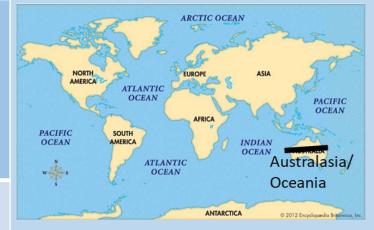
Major Oceans:

- Pacific Ocean
- Atlantic Ocean
- Indian Ocean



Highest mountain in:

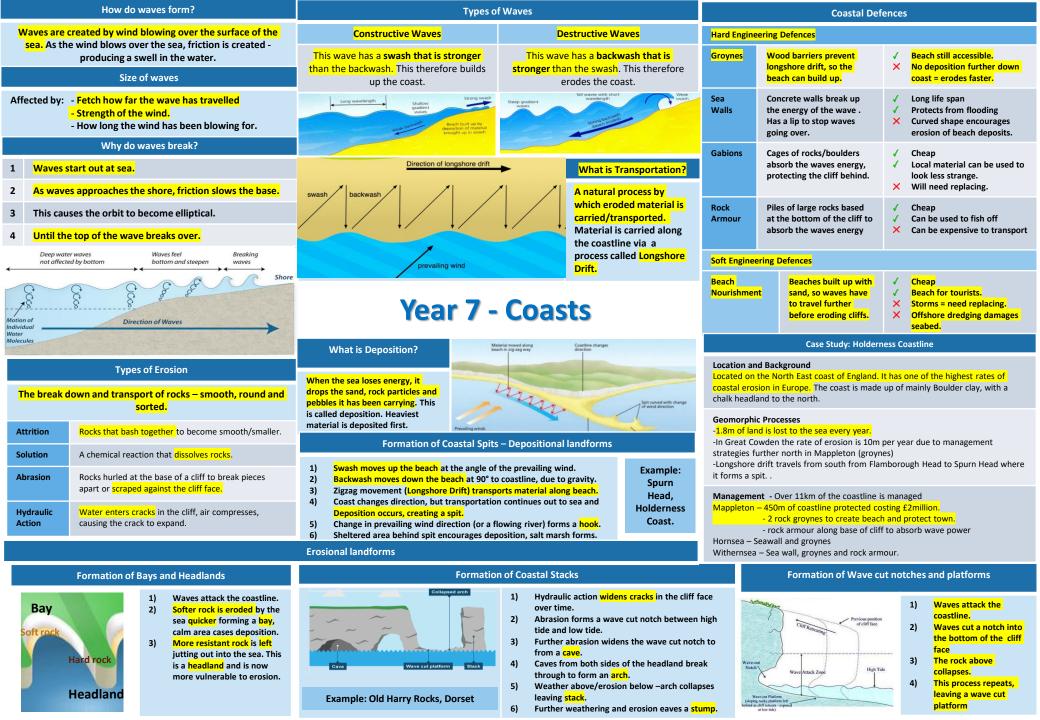
England: Scafell Pike: 978m Wales: Snowdon: 1,085m Scotland: Ben Nevis: 1,345m



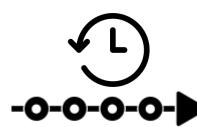
Capital of England : London Capital of Wales: Cardiff

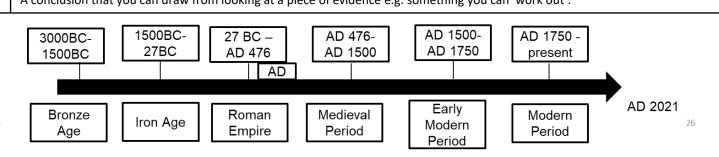
Capital of Scotland: Edinburgh

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
British Isles	V	V	V	V	V
United Kingdom	V	V			
Great Britain	Ø	Ø	Ø		



What is History?	History	History is the study of people, places and events that have happened in the past. In History you can learn about the local community, Britain, Europe and the rest of the world.			
	Local History	The study and understanding of the area that you live in over time.			
Key Skills	Someone's view of an event. These points of view can be different depending upon your experiences or situation. Historians form interpretations using sources.				
	Source	Sources are pieces of information that help historians to learn about the past. For example, letters, diaries, photographs. They were made at the time.			
	Chronology	This is the arrangement of dates or events in time order.			
Time	BC means 'Before Christ' and refers to the years before 1AD. Also known as BCE which stands for 'Before Common Era'.				
	AD AD means 'Anno Domini' which is Latin for 'in the year of our Lord'. This refers to the years after 1				
	Decade	A decade is a period of ten years in time.			
	Century	A century is a period of one-hundred years in time.			
	Millennium	A period of a thousand years.			
	Period	A label used by historians to identify time between two dates. E.g. Early Modern 1500-1750			
	Medieval	The Medieval period is also known as the 'Middle Ages'. This was a period between the 5 th century to the 15 th century.			
	Early Modern Period	This is usually seen as the time from the mid-15th century, until the beginning of the Industrial Revolution in the late 18th century.			
	Modern period	This is usually considered to be 1900- present day			
	This is usually considered to the 18 th & 19 th C (1700-1900). A lot of change and growth happened in towns and cities in this period.				
Sources Primary Source This		This refers to a source which was made at the time of an event. For example, a diary written by a soldier during the First World War.			
	Secondary Source	This refers to a source created after an event has happened. For example, a textbook or film created after the First World War.			
	Inference	A conclusion that you can draw from looking at a piece of evidence e.g. something you can 'work out'.			





Year 7: Unit 2: The Norman Conquest – How did William take control of England?

Who wanted to be King in 1066?

William, Duke of Normandy.	Norman Chronicles reported that Edward had promised William the throne in 1051. William was the only blood relative of Edward, but the English throne was not hereditary. The Bayeux Tapestry shows Godwinson swearing an oath of support to William in a visit to Normandy in 1064. William was supported by the Pope.
Harold Godwinson, Earl of Wessex.	Harold was a rich and powerful English nobleman. According to the Anglo-Saxon Chronicle, Edward named Godwinson as his successor on his deathbed. The next day, the Witan (the royal council) declared Harold King.
Harald Hardrada, King of Norway.	Norwegian ruler, Hardrada, based his claim on the fact that his ancestor, King Cnut, had ruled England (1016-1035). He was helped by the brother of Harold Godwinson, Tostig. Harald did a good job leading the Vikings in wrecking northern England. However, he was killed at the Battle of Stamford Bridge by King Harold.

Timeline The death of Edward the Confessor, King of England. 4th Jan 1066 Harold Godwinson was crowned King of England. 6th Jan 1066 The Battle of Stamford Bridge, near York. King Harold 25th Sept 1066 Godwinson's army defeated Harold Hardrada and his army. Duke William of Normandy set sail for England with his army. 27th Sept 1066 Duke William landed at Pevensey on the South Coast of 28th Sept 1066 England. King Harold received news of the Norman invasion. He began to march his army South to defend England from the Norman 1st Oct 1066 invasion. The English army arrived in the South. Early Oct 1066 The Battle of Hastings began. King Harold was killed. 14th Oct 1066 William, Duke of Normandy was crowned King William I of 25th Dec 1066 England. The Harrying of the North 1069-1070 First draft of Domesday Book completed. August 1086 William I died. 9th Sept 1087

WHY DID WILLIAM WIN THE BATTLE OF HASTINGS?

Tactics:

Duke William had many years of battlefield experience. The feigned retreat that his cavalry used to break the shield wall was a tactic his armies had used before in Normandy.

Leadership: M

William was very successful in keeping together his large army in a foreign country. He planned carefully and was experienced. Harold's army appeared invincible for much of the battle but William and his commanders continued to fight. At important moments in the battle he boosted his men's morale and most importantly stayed alive.

Fortune:

William was also very fortunate, because: if he had invaded in the summer, as Harold expected him to, he would have fought an English army twice as large but, instead, the winds stopped William from crossing the channel. The same wind that brought Harald Hardrada from Norway to York also allowed William to cross from Normandy to Pevensey. This meant William landed unopposed.

Harold II's death was also a turning point;



if he had survived then the battle may well have restarted the following day.

KEY INF	ORMATION – How did William take control of England?		KEY TERMS
The Domesday	This gave <u>William</u> an <u>accurate record of the state of his land</u> . He had to know exactly who owned what and how much it was	Heir	The person who is to be the next king or queen when the current monarch dies.
Book	worth, so that he could tax them correctly . He also wanted to know how much tax had been paid during the reign of Edward the	Monarch	The King or Queen who rules a country.
	Confessor. In 1085, William sent Royal Commissioners all over the country to collect this evidence. People, animals and land	Conquer	To invade and take over an area by force, often using an army.
Chanter for Start Up Straphne Change Stein Nova Propoli	were all counted so that William could see how rich or poor his subjects were.	Housecarls	Well-trained, full-time, paid, Anglo-Saxon soldiers.
Harrying of the North	The <u>most serious rebellion in the north of England in 1069</u> . The Saxons killed William's trusted friend, Earl Robert & 900 of William's soldiers. The Earls Morcar & Edwin turned against William, helped by a small force of <u>Vikings</u> . They <u>seized York</u> and threatened to set up a separate kingdom in northern England. William ordered villages to be destroyed	Fyrd	Farmers who fought for the Anglo-Saxons
	and people to be killed. Herds of animals and crops were burnt. Most people who survived starved to death; there were stories of people turning to cannibalism. The population was reduced by 75% and land was covered in salt to prevent people growing crops in the future. William then placed loyal nobles in charge to look after his lands. William started by saying that all land in England belonged to him. However, he lent land to trusted followers in exchange for	Cavalry	Knights on horses.
The feudal System		The Bayeux Tapestry	A piece of artwork on cloth that shows the events leading up to the Norman Conquest, including the Battle of Hastings.
State of Angelonia	their loyalty. The <u>feudal system</u> meant that William had a <u>constant supply of money and loyalty</u> , and still owned the land.	Barons	An important person who was wealthy and powerful who was below the King in the Feudal System.
Castles	William had new, loyal <u>nobles</u> from Normandy build over <u>100</u> <u>castles all over the country</u> . They were built extremely quickly,	Knights	A man of noble birth, who served his king or lord or baron in battle in return for land.
	some in just eight days! From their castles, the new Norman lords could control the local area, and the sight of them made it clear who was now in control. The need for quick constructions meant materials such as earth and wood were used and although this	Peasants/ Serfs	The group of people at the bottom of the Feudal System. They would be ordinary people who would work on a knight's land in return for land/accommodation/food.
	sped up the building process, it meant they <u>didn't last very long</u> . Over time, the more important ones were <u>rebuilt from stone.</u>	Oath	A promise, usually sworn in front of God or on a holy 27 book.

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whereby they did not own individual property. Both also followed chastity, whereby they could not marry. Despite there being many different types of monks and nuns, for both, their primary role was to ensure care was provided for the sick, elderly and terminally ill, mostly through the use of prayer and provision of food.

Criminality was prevalent in the medieval period, with crimes ranging from drinking alcohol, fighting, stealing and adultery. Sometimes medieval people asked God to judge a criminal in a trial by ordeal. The accused would be asked to participate in a physical test to prove their innocence. During the trial, God would show his verdict in different ways to convey whether a criminal was guilty or not guilty. There were three types of trial by ordeal which were commonly used to determine a person's

innocence. Trial by 'hot water' or 'hot iron', trial by 'cold water' and trial by 'combat'. It was more common than not that these trials would result in death, which

Warfare was very common in the Medieval period and the church did not have the total power to stop people from fighting. In an attempt to stop people from fighting,

the church came up with the idea of a 'just war'. A 'just war' was a church theory which made particular wars acceptable in the eyes of God. A holy war, or crusade was considered just, but it had a religious purpose too. An example of a 'just war' was in 1066, when the Pope blessed William of Normandy's invasion of England.

Medieval Christians believed that God created the world. Christians believed that God set up natural laws for the world to follow, for example, chickens would lay eggs,

scientists would explore the purpose behind God creating a particular plant or animal. Instead of looking for scientific explanations, like evolution and photosynthesis,

Medieval Christians believed that once God created the world, he continued to play an active role. Many Christians believed that God was responsible for disease. For

example, it was a common belief that diseases such as leprosy or the Black Death were sent from God as a punishment for committing a sin. It was believed that God could cure a headache, give sight to the blind or help a paralysed man walk. In the hope to escape disease and sickness, Medieval people often prayed, visited shrines in

sheep would grow wool and trees would grow apples. A medieval scientist would not ask 'how' they did this, but rather 'why'. Instead of questioning 'how',





TOPIC Christian beliefs

Year 7: Unit 3 – Medieval Religion

ceremonies were taken very seriously.

according to medieval people meant that the individual was guilty.

medieval people looked to God for explanations.

the hope to prevent illness.

these individuals would end up in purgatory which consisted of being tortured until they had made up for their sins. The most desirable place for individuals to reach was heaven, whereby they would be welcomed by God. In order to reach heaven, Catholics had to ensure all of their sins were forgiven, prayer and religious Social hierarchy was very evident in the Medieval Period with God sitting at the top of the feudal system. Due to the dominance of the church, priests, monks and

Role of priests,

monks and nuns

Crime Warfare Science Medicine

- fear of what would happen after they died. Many medieval people believed that if they lived a holy life they would be rewarded in afterlife and reach heaven.
- Christianity was extremely dominant across Europe and Christian ideas had a significant impact on medieval ideas in all aspects of life. For most, there was a huge fear of going to hell which would be the result of committing a moral sin, such as murder. For those who had committed a sin, but had not been forgiven there was a belief that

- **KEY INFORMATION** Most medieval people led short lives, dying at the age of around 35. As a result of short life expectancy, most people relied on the church for answers as there was huge

KEY TERMS The Christian Church and beliefs which are followed by Catholics.

The experience some people believe they will have after death. A place where medieval Christians believed they would be tortured until they had made up for their sins and bad

thoughts. Christians believe this is a part of a person that can exist after death.

The collection of buildings that monks live in.

A Christian religious service performed by a Catholic priest.

A list of rules given to Moses by God, which Jewish and Christian people are expected to obey.

A punishment for a sin.

The guilt or innocence of the accused was determined by subjecting them to a painful, or at least an unpleasant,

usually dangerous experience.

Chancellor The King's chief servant.

were an excommunicant.

Head of the Catholic Church.

A person who lived in a priest's parish (the area for which he provided services) When a person is banned from church services. A medieval person thought they were at greater risk of going to hell if they

Parishioner

Excommunication

Catholicism

Pope

Afterlife

Purgatory

Soul

Monastery

Mass

Ten Commandments

Penance

Trial by ordeal

good friends and

life style.

Beckett lived a luxurious

Timeline of the relationship between Henry II and Thomas Beckett

1162: Henry asked Beckett to become the new

1154: King Henry II appointed Thomas Archbishop of Canterbury. Beckett as his royal Beckett began to live a chancellor. His job was more holy life style and to look after the church studied religion. However, and the King's law in the same year Beckett courts. During this time resigned as chancellor Henry and Beckett were

without Henry's permission. Beckett and Henry began to argue and their relationship weakened.

- **1164:** Henry proposes limits on church power. Beckett agrees but refuses to sign the documents. Later on that year, Henry placed Beckett on trial for treason, but Beckett fled to France before his sentence was delivered.

June 1170: Henry ordered the Archbishop of York to crown the next king. This was usually the job of the Archbishop of Canterbury. When Thomas Beckett heard this news he was furious. Later on that year, Beckett removed Henry's supporters from the church, but continued to gain support from the Pope, with the Pope giving Beckett the power to excommunicate. Beckett exploited this power and used it against Henry

November 1170: After Beckett excommunicated three bishops, the bishops set sail to France to speak directly to Henry. When Henry was informed of Beckett's lack of professionalism. Henry II found out that Beckett had removed his supporters from the church. Henry was outraged by Beckett's decision to do this. Henry stated 'Will no one rid me of this troublesome priest?'

Canterbury. The knights demanded Beckett left England, however, he life was in danger. Once again the knights demanded Beckett leave to a pillar. Realising he would not leave, the knights struck him five

29th December 1170: Four knights burst into the Archbishop's Palace in refused. Monks feared that Beckett's England. Beckett refused, clinging on times, cutting off the top of his head. On their departure, one of the knights scooped out his brains and smeared them on the floor!

Computer science Digital literacy HT 1

	Famous computer scientists
Name	Description
	Alan Turing played a vital role in deciphering the messages encrypted by the German Enigma machine, which provided vital intelligence for the Allies. One of the first Computer Scientists! He created a machine that could help decipher messages sent by the German encryption machine called 'the Enigma'. Turing's invention 'The Bombe' could reduce these possibilities by working out how the Enigma was set up for each message received.
	Charles Babbage (1791-1871) designed the first automatic computing machine. He designed a steam powered calculating device called the 'Difference Engine'.
	George Boole was a mathematician from the 1800s. He believed that "human thought" can be described by means of mathematics." Which lead us to realise that computers (that are simply 'calculating devices') could act, behave and think like humans do! This is known as 'Boolean Logic'
	Timothy John Berners Lee was born on 8 June 1955 and grew up in London. He studied physics at Oxford University and became a software engineer. In 1989, Berners Lee published a paper called 'Information Management: A Proposal' in which he married up hypertext with the Internet, to create a system for sharing and distributing information not just

within a company, but globally. He named it the World

Wide Web. The world's first website, http://info.cern.ch

introduction to getting started with their own websites.

was launched on 6 August 1991. It explained the

World Wide Web concept and gave users an

Inside A Computer

Have you ever wondered what goes on inside that box next to the monitor? Let's have a look at the inside...

Central Processing Unit (CPU)

This is basically the brain of the computer. If you ask the computer to do something, it goes to the CPU. Then, it sends the message to where it needs to go enabling your action to happen.

Power Supply

The part that takes the electricity from the plug in the wall via a cable and converts it so it can be used by the computer. A power supply for a laptop will do the same but also uses a battery.

The Fan

The fan basically keeps the inside of the computer cool. The inside of a computer can become very hot when all the electrical parts are working. If it gets too hot, it can stop working due to overheating or, in the worst case, even set on fire! So, the fan keeps it cool.

USB Ports

A port is just a plug hole for plugging in devices. A USB connector is found on many devices, from charging a mobile phone to a camera or a memory stick. The USB port these devices to be connected to the computer.

Memory Slots and RAM

Your computer needs the CPU and a hard drive, but it also needs 'memory' This is counted in bytes of RAM which stands for Random Access Memory. Your memory is for remembering things forever (like a hard drive), but computer memory is for doing things quickly or temporarily; remembering things and then forgetting it when the computer is turned off. It uses memory to be able to cut and paste or download something. It's like a 'doing' place for active things rather than a place for storing things safely like the hard drive. A computer has memory slots so that you can add extra memory if you like to do more things at once.

4)

Drive Bays

These are like parking spaces for things like DVD or CD drives or other floppy disc drives. Can you see some blank spaces on the outside of the computer where an extra DVD drive could go?

5)

DVD Drive

The device where you put in a DVD so the computer can read what's on it or play a film.

6

Expansion Slots

These are parking spaces for extra things you might want to add to your computer to make it do more things.

0

Memory Card Reader

Some computers have a small, thin slot for putting a memory card straight in. This could be from a device, such as a camera. It enables your computer to show photos or videos you have taken.

1

) Motherboard

This is the circuit board that connects up all the different devices and passes the information between them all. It works just like a circuit for switching on a light bulb with metal links for electricity and information to get through.



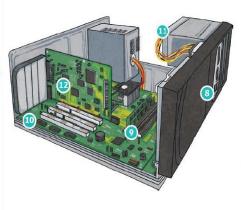
Hard Drive

This is where everything is stored. Every picture you save, every word document you write, every setting you save, even Windows itself, is all stored here. It's like a massive filing cabinet.



Expansion Cards

These cards slot into the expansion slots and connect to the motherboard to make your computer do extra things. For example, a network card will let a computer talk to other computers and a sound card will let your computer produce sound through extra speakers or headphones.







Computer science — staying safe online HT2



Safe

This is all about keeping your personal information safe.

Meeting

This is about making friends online and thinking about meeting up with them. You should only ever meet an online fried with a parent or carer's permission and if they can come with you.

Accepting

When you receive an email or instant message with an attachment, you need to think about how safe it is to open it.

Reliable

Remember that people online are not always reliable. Anyone can say anything online.

Tell

If you're every worried, uncomfortable or just have questions about something you've seen online, the number 1 rule is...TELL SOMEONE!

Bullying

E-safety Rules

- Never give out your password this doesn't matter who asks!
- Don't give out your contact details
- Don't download any software without permissions!
- Respect people's privacy
- Copying and pasting could be breaking the copyright law – make sure you always reference where you got that information from!

✓ A strong password helps keep your information private.

✓ Include: a mixture of lower case and upper case letters.

✓ Use numbers and symbols (@?£\$@)

Remember! Don't use easy to guess words like your name.

· Remember! Don't share your password with others

▶ Be aware! Websites and apps can collect and share information with other sites.

> Be aware! Many free apps may read and share private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others.

▶Be aware! Information can be used to direct adverts to you.

Be aware! Pop ups could direct you to inappropriate sites. Check the links

> Check! Ask a trusted adult if you are asked about sharing your information.

Check your settings and check the website

Passwords

Your data — your

privacy

✓ Use the settings within apps to increase privacy.

✓ Look at the address bar. Some browsers will show a padlock to show the site is secure.



Verbal bullying

This could be teasing, name-calling, making inappropriate comments, taunting or threatening to hurt someone.

Social bullying

People not to be friends with the victim, spreading rumours, embarrassing someone in public on purpose.

- Physical bullying Sometimes the most obvious kind of bullying, this could be: hitting; kicking; pinching; spitting; tripping or pushing; breaking someone's belongings; making rude gestures.
- Cyberbullying The bully cannot see the effect on the person and this means they are less likely
 to feel guilty. Other people can't see that the victim is hurt, and they are less likely to
 intervene. Don't reply, however tempting
- Block the sender
- Keep any evidence
- Tell somebody
- Use a 'Report' button

Key Definitions:

<u>Factors:</u> The numbers we can divide by with no remainder. The factors of 12 are: 1,2,3,4,6,12

Multiples: Another word for a times-table. The first 6 multiples of 8 are:

18,16,24,32,40,48,, ...

<u>Primes:</u> Can only be divided by 1 and itself. The first 8

primes are:

2,3,5,7,11,13,17,19 ...

(Note: 2 is the only EVEN prime and 1 is NOT prime!)

Integers: Anther word for

a whole number:

-100, -5, 0, 27, 462 etc.

Product: X
Sum/Total: +
Quotient: ÷

Diff. Between/Subtract: —

BIDMAS

Brackets

Indices (Powers/Roots)
Division/Multiplication
Addition/Subtraction

Year 7

Half-term 1

Powers and Roots:

A Square number is formed by multiplying a number by itself. We use the notation 1^2 , 7^2 etc.

$$1 \times 1 = 1, 2 \times 2 = 4, 3 \times 3 = 9, 16, 25, ...$$

A Cube number is made by multiplying a number by itself and again. We use the notation 6^3 , 12^3 etc.

$$1 \times 1 \times 1 = 1, 2 \times 2 \times 2 = 8, 27, 64, ...$$

Higher powers also exist. Eg $3^4 = 3 \times 3 \times 3 \times 3 = 81$

The square root of 25 is 5, since $5 \times 5 = 25$.

We use the notation: $\sqrt{25} = 5$

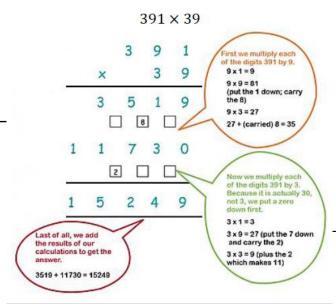
The cube root of 64 is 4, since $4 \times 4 \times 4 = 64$.

We use the notation: $\sqrt[3]{64} = 4$

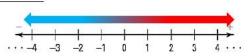
The fourth root of 16 is 2, since $2 \times 2 \times 2 \times 2 = 16$

We use the notation: $\sqrt[4]{16} = 2$

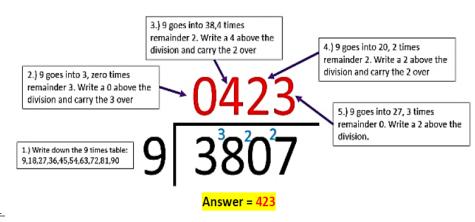
Multiplication:



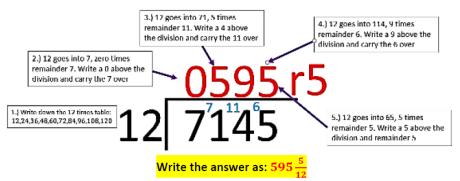
Number Line:



Division with no remainders



Division with remainders



Adding and Subtracting Directed Numbers:

Always draw a number line if you are unsure or think of a Thermometer. Subtract means to get colder. Add means get warmer etc.

$$5-7 = -2, -2-9 = -11, -3+9=6$$

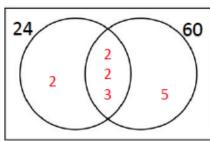
 $9 + 5 = 9-5 = 4$
 $-12 - 8 = -12 + 8 = -4$

Multiplying and Dividing Directed Numbers:

$- \times -= + + \div -= - \times += - - \div += + \times -= - - \div -= +$ $-7 \times -8 = \frac{56}{6} \cdot 6 \times -12 = -72, (-3)^2 = 9$ $-42 \div 6 = -7, -32 \div -8 = \frac{4}{9} \cdot 9 = -1$

Prime Factor Decomposition

 $24 = 2^3 \times 3$ and $60 = 2^2 \times 3 \times 5$



HCF is the product of numbers in the overlapping section

$$HCF = 2 \times 2 \times 3 = 12$$

LCM is the product of ALL numbers

$$LCM = 2 \times 2 \times 2 \times 3 \times 5 = 120$$

Expanding Brackets:

$$3(2x-7) = 6x - 42$$

Expanding Double Brackets

terms

$$4x(5x + 7y - 3z^2) = 20x^2 + 28xy - 12xz^2$$

4(2x-5)-2(3x-1)=8x-20-6x+2=4x-18

Use FOIL (First Outside Inside Last) and then collect like

 $(x+7)(x-3) = x^2 - 3x + 7x - 21 = x^2 + 4x - 21$

Factorising:

$$10x - 25 = 5(2x - 5)$$
$$x^2 - 40x = x(x - 40)$$

$$x^{2} - 40x = x(x - 40)$$

$$16x^{2}y + 24xy^{2} = 8xy(2x + 3y)$$

Remember to check your answers by expanding the

brackets!

Expanding and Simplifying:

Expand both sets of brackets separately and then collect like terms.

To convert between Degrees Fahrenheit (°F), and Degrees Celsius(°C), you multiply the amount in °C by 1.8 and then add 32. Write this as a formula.

$$F = 1.8C + 32$$

(Remember: We write $1.8 \times C$ as 1.8C)

Convert 50°C into °F:

$$F = (1.8 \times 50) + 32$$
$$F = 122^{\circ}$$

Convert $140^{\circ}F$ into $^{\circ}C$. To do this, we use the inverse operations:

$$C = \frac{(140 - 32)}{1.8} = 60^{\circ}\text{C}$$

Writing and Simplifying Expressions

John is x years old. Tom is 4 years older than John. Adam is 5 years younger than John and Carl is 3 times as old as Tom. The sum of their ages is:

$$x+x+4+x-5+3(x+4)$$

= $x+x+4+x-5+3x+12=6x+11$

Simplify:

$$4x^{2} - 7x - 2x^{2} - 11 + 5x - 10$$

$$= 2x^{2} - 2x - 21$$

$$4x^2 - 2x^2 = 2x^2$$

$$-7x + 5x = -2x$$

 $-11 - 10 = -21$

Polygons

 $Interior\ Angle + Exterior\ Angle = 180^{\circ}$

Sum Of Interior Angles = $180^{\circ} \times (n-2)$, where n is the number of sides

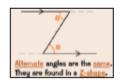
For Regular Polygons (All sides and angles the same):

$$Exterior\ Angles = \frac{360^{\circ}}{n}$$
 and

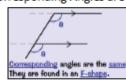
$$Number of Sides = \frac{360^{\circ}}{Exterior Angle}$$

Angles in Parallel Lines

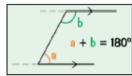
Alternate Angles are Equal



Corresponding Angles are Equal



Co-interior Angles are Supplementary (Add up to 180°)



Significant Figures

Another way of rounding. Start by finding the first significant figure (Important digits!)

$$352.6 \rightarrow 350(1sf),$$

 $0.0712 \rightarrow 0.07(1sf)$
 $419562 \rightarrow 420000 (3sf)$
 $239.782 \rightarrow 240 (2sf)$

Year 7 – Half Term 2 (A)

Algebraic Notation:

gebraic Notation:
$ab = a \times b$
$5x = 5 \times x$
$m^2 = m \times m$
$t^5 = t \times t \times t \times t \times t$
$\frac{x}{-} = x \div y$
$y = x \cdot y$
$1 \times y = y$
$-1 \times t = -t$
$x^3y = x \times x \times x \times y$

Writing Expressions

John is x years old. Tom is 4 years older than John. Adam is 5 years younger than John and Carl is 3 times as old as Tom. Their ages are:

Lowest Common Multiple (LCM)

- List the multiples (at least 10) of all numbers
- 2.) Find the numbers in both lists
- 3.) Select the smallest circled number 8: 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, ... 6: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, ... LCM(6, 8) = 24

Year 7 - Half Term 2 (B)

Properties of Quadrilaterals

Quadrilateral	Properties	
Rectangle	4 right angles and opposite sides equal	["]
Square	4 right angles and 4 equal sides	
Parallelogram	Two pairs of parallel sides and opposite sides equal	£
Rhombus	Parallelogram with 4 equal sides	\Leftrightarrow
Trapezium	Two sides are parallel	
Kite	Two pairs of adjacent sides of the same length	$\langle \rangle$

Angle Properties:

Acute angle: Less than 90°



Tom: x + 4

Adam: x - 5Carl: 3(x + 4)

Obtuse angle: Greater than 90°, but less than 180°



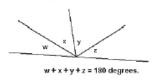
Reflex angle: Greater than 180°



Vertically Opposite angles are equal



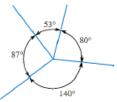
Angles on a straight line add up to 180°



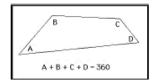
Angles inside a triangle add up to 180°



Angles around a point add up to 360°



Angles inside a quadrilateral add up to 360°



Substitution

Find the value of
$$a^3 + 2b$$
, when $a = 2, b = 3$, $2^3 + (2 \times 3) = 8 + 6 = 14$
If $y = 5x - 7$, find the value of y when $x = 1$ $y = (5 \times 1) - 7 = 5 - 7 = -2$
Find the value of $3xy^2$ when $x = 2, y = 4$

 $3 \times 2 \times 4^2 = 96$

Names of Polygons

Triangle (3 Sides), Quadrilateral (4 Sides), Pentagon (5 Sides), Hexagon (6 Sides), Heptagon (7 Sides), Octagon (8 Sides), Nonangon (9 Sides), Decagon (10 Sides)

Types of Triangles (3 Sided Shapes)

Scalene triangle All 3 sides have different lengths. Its angles are also all different.	<u> </u>
Isosceles Triangle 2 sides have equal lengths. 2 of its angles also measure equal.	
Equilateral Triangle All 3 sides are of same length. All three angles are equal, 60°	

Highest Common Factor (HCF)

- 1.) List Factors of all Numbers
- 2.) Find the numbers in both lists
- 3.) Select the largest number in both lists

24: **1**, **2**, **3**, **4**, **6**, **8**, **12**, 24 36: **1**, **2**, **3**, **4**, **6**, **9**, **12**, 18, 36 *HCF*(24, 36) = **12**

Y7 Music HT1 & 2 - Rhythm, Metre, and Tempo



Tempo - The **tempo** is the speed of the music, whether it's fast or slow.

<u>Pulse</u> - The tempo creates a pulse, which is the music's heartbeat.

BPM – Beats per minute, the rate of the pulse.





Rhythm - is music's pattern in time. Rhythms tell us how many notes to play, and how long to hold each note for (duration).

Rests - There are rests for every rhythmic duration. So, a crotchet rest is worth one whole beat.

Notes	Name	Value	Drink Name
	Crotchet	1	Tea
	Minim	2	Juice
o	Semi-breve	4	Soup
hor J	Quavers	½ each	Milkshake
	Semi-quavers	¼ each	Coca-Cola

<u>Samba</u> - Samba is a Brazilian musical genre and dance style, often heard in street festivals. Samba music relies heavily on rhythmic drumming.

<u>Percussion</u> - A percussion instrument is a musical instrument that is sounded by being struck by a beater, by hand, or struck against another similar instrument.

Y7 Music HT1 & 2 - Rhythm, Metre, and Tempo

<u>Dotted Rhythms</u> - A dot after a note **increases** its value by **half** of whatever the value was. So, a dotted crotchet lasts for one and a half crotchets (1.5) but a dotted minim last for one and a half minims (3).

Symbol	Name	Duration
Ο.	Dotted semi-breve	6
J.	Dotted minim	3
ال.	Dotted Crotchet	1 1/2
♪.	Dotted quaver	3/4

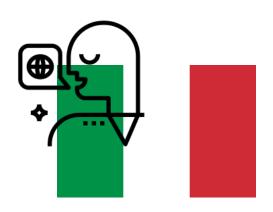


Metre - Pulses (beats) are often emphasised - strong beats. Pulses are grouped according to how often there is a strong beat, and we call this the metre.

<u>Time Signature</u> - When music is written down, we call the metre the Time Signature, and we use **bars** to show the grouping.



<u>Tempo Terms</u> – are Italian words to describe the speed of the music, such as **Allegro** for fast and **Lento** for very slow.



Italian Word	Meaning	ВРМ
Largo	Very Slow	Less than 60 bpm
Adagio	Slow 60 – 80 bpm	
Andante	Walking Pace	80 – 100 bpm
Moderato	Moderately	100 – 120 bpm
Allegro	Fast	120 – 140 bpm
Presto	Very Fast	More than 140 bpm

What is Religion, Philosophy & Ethics?

Religion, Philosophy & Ethics - Year 7 Topic 1

Key Terms	Definition	
Supreme Spiritual Being	Belief in a god or gods / goddess or goddesses; supreme being or divine spiritual principles which is the focus of a religion	
Cult	A religious, political or self-help movement often with extreme ideas that cause physical, emotional or financial harm to the person	
Alternative Religion	A new modern religious movement with a small number of followers	
Atheist	Someone who holds the view that there are no Gods or God	
Agnostic	Someone who holds the view that is impossible to know the truth about something such as the existence of God	
Philosopher	A person who seeks wisdom	
Ethics	The study of what is right and wrong and what governs human behavior	

"Faith is taking the first step even when you don't see the whole staircase" Martin Luther King (Christian)

"I am against religion as it teaches us to be satisfied with not understanding the world" Dawkins (atheist)

"Religion is the opiate of the masses" Marx

"The essence of all religions is one. Only their approaches are different." Gandhi (Hindu)



What is a religion?

According to UK Law, for an organisation to be defined as a religion it must have the following three features:

- 1. Supreme Spiritual Being: Belief in a god or gods, goddess or goddesses, a supreme being or divine spiritual principle which is the object or focus of the religion.
- 2. Sense of Seriousness and Importance: A relationship between the believer and supreme being or entity by showing worship and/or a sense of clear seriousness and importance.
- 3. Positive Moral Values (set of ethical laws or rules): An identifiable positive, beneficial, moral or ethical framework.

These key features can be easily identified in all main world religions, for example in Christianity

Alternative religion is a new religious movements with modern origins with a small number of followers, examples include Jediism.

- Jediism originates from the 1977 Star Wars films and books produced by George Lucas. In 2008, Daniel Jones founded the 'International Church of Jediism'. Its core beliefs center on the idea of 'The Force' an energy that flows through all things and joins the universe together. They also believe that humans can tap into the Force to unlock greater potential. A census was held in 2001 and In total: 390,127 claimed they were part of the Jedi religion.
- *Issues: Many alternative religions are ridiculed and not respected despite great importance to the believer.

Arguments Against Religion and Religious Ethics

Some believe religion is a form of social control, this means humans created religions to control those who are poor, weak or unhappy by promising them a better life or afterlife. **Karl Marx** was a prominent **sociologist** who argued that religion is meant to create misleading fantasies for the poor. Lack of money prevents them from finding true happiness, so religion tells them this is ok because they will find true happiness in the next life.

Why are religious, philosophy and ethics lessons important?

- To better understand the world around you and the people in it
- To develop empathy, tolerance and understanding to different situations or belief systems
- To develop your critical thinking and problem solving skills
- To improve community cohesion and prevent religious, political or other discrimination
- To help you develop your own sense of self and know what is important to you
- Because all jobs require some level of working with others and RPE educates you in how to do so well
- To develop your written and verbal communication skills
- Because the skills you learn, such as the ability to debate well and identify good ethics, means there are many jobs open to you such as doctor, lawyer, manager etc.

What is Religion, Philosophy & Ethics?

Religion, Philosophy & Ethics - Year 7 Topic 1

Creativity and Spirituality

Art, music and literature have been used throughout history to express one's beliefs, and to help focus on practices such as prayer, worship and meditation. Beautiful words, images and objects have played a big part in many world religions however, some religions do not agree with some creative religious imagery.

- Muslims do not use images and statues of God as part of their faith because the Qur'an teaches them to not worship false idols and in the past people have falsely worshiped such creative objects.
- However, in other faiths such as Buddhism art is important; the mandala is a picture starting in the center and expanding outwards. Buddhists believe the mandala symbolizes the entire universe and creating, viewing or imaging a mandala can help a Buddhist focus during meditation.



Above is a Buddhist mandala used to help Buddhist focus during meditation. This one is made of coloured sand but they can be made of anything or just imagined in one's head.



Muslims do not have a duty to use henna but many do as the Prophet Muhammad did. Henna is often used at time of celebration to beatify one's self



Artist Michelangelo painted the Sistine Chapel in the Vatican (center of Catholic Christian Church). His work reflects Christian beliefs and teachings four the Bible. It took four year to pain the chapel ceiling.



Banksy is a famous artist but know one knows who he or she is or what he/she uses for inspiration yet the art is famous for the powerful messages it portrays...

Philosophies of Life

- **Nihilist**, Friedrich Nietzsche, 19th century philosopher, believed in Nihilism. the belief that all values are baseless and that nothing can be known. A true nihilist would believe in nothing, have no loyalties, and no purpose. Nietzsche would argue that religion is just the creation of humans desperate to give life meaning, when in fact there is no meaning at all.
- Materialists do not believe in the existence of non-material objects (anything you cannot directly observe e.g. a God) as such only material things can bring comfort and happiness thus material things give life purpose.
- Hedonist do not believe in an Gods, they believe that, in life, we should seek pleasure and not pain.
- Existentialist also do not believe in an Gods, they believe life is what you make of it thus we give our own life purpose. Often this means hedonists seek whatever brings them happiness.
- Humanists believe life is about the needs of others. They do not believe in a God but believe life is better when we are each concerned with respecting and supporting one another. To some Humanists, a life is only someone who is able to think and reason for themselves.
- Religious people believe their faith views them purpose their belief in a God or set of religious teachings gives them purpose and duties in life.

Does God exist?

Religion, Philosophy & Ethics - Year 7 Topic 2

Key Terms	Definition	
Creation	The action or process of bringing something into existence.	
Big Bang	The scientific theory which explains the beginning of the universe 14 billion years ago.	
Evolution	The process of change in a species over time which explains the existence of humans.	
Literal Christians	The belief that the Bible is all historical fact including that the world was created in 7 actual days.	
Design Argument	5 1 1 5 55	
Causation Argument	, , , , , , , , , , , , , , , , ,	



Science



Religion



Science Atheism

Atheist may argue that there is no need to believe in the existence of God because science has all the answers we need that explain how everything exists by chance.

According to atheists, the **Big Bang** was an explosion almost 14 billion years ago that caused the universe to exist. A single compressed point exploded causing atoms and particles to form that make up our universe today. Scientists evidence the Big Bang by observing "red shift" which is radiation that proves the universe's age and where the bang happened.

Darwin's theory of **evolution** explains how humans came to exist too. His observations in 1859, that species change over time through natural selection enabled humans to evolve to suit their environment.

Christianity

Religious people, such as Christians, would disagree and believe we need God to explain science.

Literalist Christians believe the Bible is historically accurate. Because the first book of the Bible (Genesis) states God create the world in seven days God must exist and beliefs about evolution and the big bang are false.

Most Christians believe religion and science go together. These Christians believe the Genesis creation stories are not factual but intended to teach us about the nature of God. Most Christians believe God create the world through science – as Catholic Christian, Pope Francis said "God is not a magician" by this he meant God used science to create the world.

"I am against religion because it teaches us to be satisfied with not understanding the world" Richard Dawkins (atheist)

"Nothing can come from nothing" St Thomas Aquinas (Christian)

"There cannot be design without a designer" William Paley (Christian)

"Would you waste time and breath, by asking who shot the arrow" written in the Tripitaka (Buddhist holy text)





Buddhism

Buddhists do not believe in a God nor do they know the origins of the universe. The Buddha refused to answer questions about the origins of the earth, as a result Buddhists focus on the concerns of the present and how to avoid suffering now.

The parable of the poisoned arrow

explains that a foolish man was shot with a poisoned arrow and insisted on finding out about the person who shot the arrow before removing it, but by the time this information was known he was dead. This reminds Buddhists to focus on now and not waste time questioning things we cannot know.

Causation Argument for the Existence of God

Christian St Aquinas is famous for basing his beliefs on the observation of cause and effect. He believed that "nothing can come from nothing" so there must be a First Cause of the universe which could only possibly be God. Many Muslims agree with this argument too.

The argument's premises are...

- Nothing happens by itself, everything in the world needs a cause
- Anything caused to exist must have something that caused it; nothing can cause itself!
- The universe must have a cause the First Cause.
- The only thing powerful enough to have caused the Universe is God.

Therefore, God must exist!

Criticism 1. If everything needs a cause then what caused God?

Criticism 2. Why must the First Cause be the God of Christianity or Islam?

Design Argument for the Existence of God



This argument proves the existence of God by using the order and purpose in the universe as evidence.

When we observe the universe we notice that everything works with a purpose and order that is very complex. For example, the human eye is very complex – it works in a specific orderly way with the purpose of seeing. Christians and Muslims believe that the only being capable of creating such complexity is an omnipotent (all-powerful) God thus God must exist.

William Paley, 18th century philosopher, used the 'watch analogy' to evidence this argument; if we had never experienced a watch but found one amongst some stones in a field we would assume it had been designed and not occurred natural due to its' complexity. In the same way, the universe is complex and so it too must need a designer. So just as a watch needs a "watch-maker" the universe (which is hugely more complex than a watch) must need a "universe maker".

Religious Experience for the Existence of God



Some people believe in God due to direct or indirect revelations from God known religious experiences..

- > Numinous feelings The feeling of the presence of something greater than yourself.
- ➤ Miracles Something which breaks the laws of science and can only explained by the existence of God. E.g., Jesus raising from the dead in the Bible
- Answered prayers which can only be explained by the existence of God.
- ➤ **Vision** seeing a direct image of God or divine representation. E.g. Muslims may believe in God because the Prophet Muhammad was taken through the heavens to meet Allah (God)

Criticism 1. If the world is designed by God, who is omnipotent (all-powerful) why are there flaws. For examples, blind people do not have eyes that work with purpose and order?

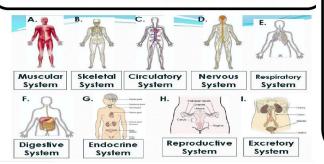
Criticisms 2. Evolution explains that life has adapted to survive on earth and not that life was designed for earth.

Criticism 1. Miracles are often only experienced by one or a small number of people, one could question the integrity of that person – were they lying, mentally unwell or drunk?

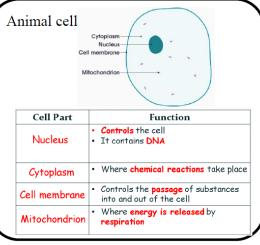
Criticism 2. The God Helmet experiment – the helmet manipulated the brain scientist Persinger believed to be responsible for religious experiences. Some of his volunteers saw angels and said they experienced God whilst wearing the helmet.

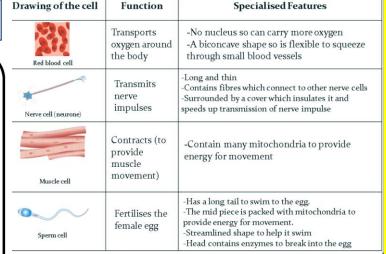
5 functions of the Skeletal System

- Framework gives shape & support to the body.
- Bones protect the internal organs.
- 3. Major muscles of the body are attached to the bones for movement.
- 4. Blood cells are formed in marrow of some bones.
- 5. Skeleton is a place where calcium and phosphorus compounds are stored.

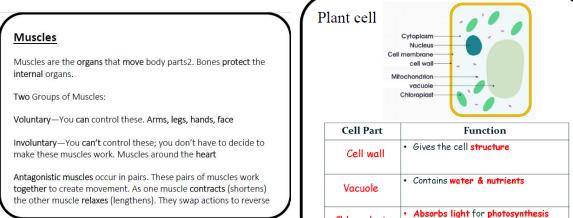


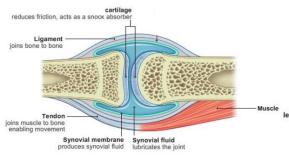
Y7 Bio T1- Living systems

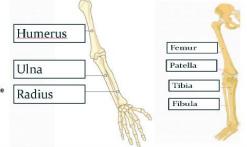




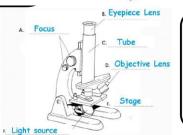
Drawing of the cell	Function	Specialised Features
one of the second of the secon	Absorbs light for photosynthesis	-Packed with chloroplasts which contain the pigment chlorophyll. -Packed together to absorb as much light as possible
Root hair cell	Absorbs water and minerals from the soil	-Thin membrane -Large surface area which enables the cell to absorb more water from the soil
Guard cell	Allows gases in and out the leaf	-Able to change their shape -Found in pairs
Sieve cell	Transport water, nutrients and minerals through the plant	-Hollow -Form long tubes







Chloroplast



Scientific Drawing rules

Use simple clear lines

Organ

- Draw only what you see (in proportion).
- Ensure diagram is the right size.
- No shading
- Draw labelling lines using a ruler (NO crossing)
- Include a scale or magnification

Magnification = Eyepiece X Objective lens

41

Diffusion in solids is extremely slow.

substance are always moving around. Diffusion is fastest in gases, and slower in liquids.

Brownian motion is the random movements of particles in liquids and gases.

Separation

technique

What it

separates

diagram

How it works

42

How the

particles move

Heat

Properties

State

Particle arrangement

A force is something that causes a change in the position of an object.

A force can be described as a push, a pull or a turn.

Forces have both size (magnitude) and direction.

The unit of measurement of a force is the Newton (N)

Forces can be measured using Newton meters.



Y7 Phys T1- Forces

Forces can be categorised as contact or noncontact forces.

Contact forces require physical interaction for the force to be exerted (e.g. friction)

Non-contact forces can act at "a range". For example gravity and magnetism.

Friction is a contact force. Friction occurs when an object is moving and is in contact with another substance.

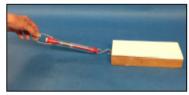
For example, if you push a book across a table, friction acts in the opposite direction to this motion.

Adding a lubricant can decrease the effect of friction.

Friction can generate heat.

Air resistance is also a form of friction. When a plane flies through the air, the air particles collide with it and apply a force in the opposite direction to the motion of the plane.

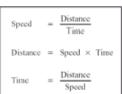
Air resistance can be decreased by making an object more streamlined/aerodynamic. This works by decreasing the size of the force acting on the object. Friction can be investigated by dragging friction blocks across a table.



Adding more mass to the block will increase the amount of friction generated. This means a greater force needs to be applied to move the block.

Changing the surface of the block and/or the table will also change the amount of friction generated.

Speed is a measurement of how much distance is travelled in a certain amount of time.



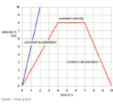


Distance is measured in metres (m)

Time is measured in seconds (s)

Speed is measured in metres per second (m/s)

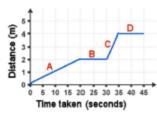
Speed/velocity time graphs show how the speed of an object varies over time. The gradient (line) of the speed time graphs shows an object speeding up, slowing down or going a constant speed. This is therefore a measurement of the acceleration of the object.



Acceleration is measured in m/s2

Distance time graphs show the distance that an object is travelling and the time it is taking to do so.

The gradient of a distance time graph (the change in the y-axis divided by the change in the x-axis) is a measurement of distance divided by time, which is speed.



Section A shows a speed of 2m in 20s = 0.1m/s

Section B shows no change in distance which means it is stopped.

Section C shows a greater speed than section A because the gradient of section C is steeped than section A. Section C shows 2m travelled in 5s = 0.4m/s

Section D also shows a stopped object.

Mass and Weight are two different things.

The mass of an object is its ability to resist change (inertia). Mass is measured in kilograms (kg)

The weight of an object is the force that the object exerts straight downwards because of both its mass and because of the strength of gravity.

Weight is measured in Newtons (N) because it is a force.

Weight (N) = mass (kg) x gravitational field strength (N/kg)

Gravitational field strength on earth is 9.8N/kg, so to find the weight of a 6kg box on earth: Weight = 6kg x 9.8N/kg = 58.8N.

