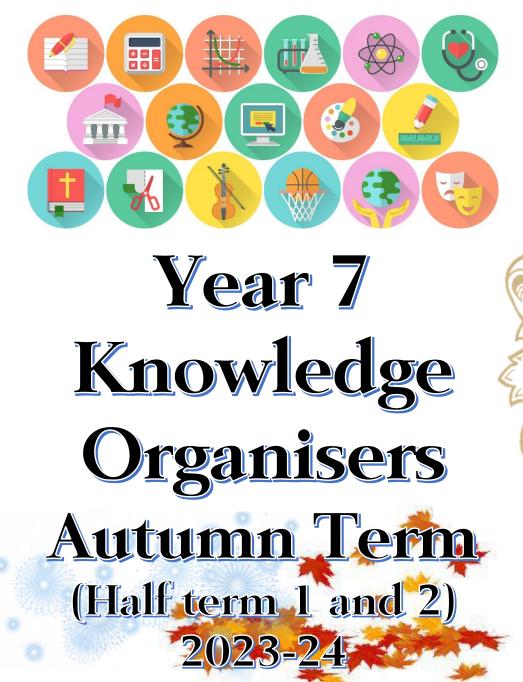


#1









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 just 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)	Page
How to use your Knowledge organiser	3
Tier 2 Vocabulary	4
Art	5
Computing	7
Design Tech	11
Drama	17
English	18
Food Tech	22
French	25
Geography	30
History	32
Maths	37
Music	40
Religious Studies	42
Science	46



- 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



"The limits of my language are the limits of my world" - Ludwig Wittgenstein



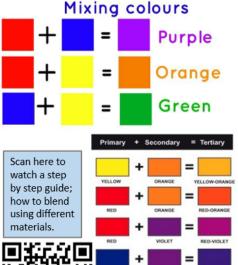
	List 1		List 2	Li	ist 3
approach (v)	move towards/get closer	factors (n)	Influences/things involved in something	precise (adj)	exact
assessment (n)	test	function (n)	the point of something/what it does	required (v, adj)	needed
authority (n)	the person in charge/expert/power	identify (v)	pick out	response (n)	reply
available (adj)	free/not taken	indicate (v)	show	sector (n)	area
consistent (adj)	same every time	issues (n)	problems	significant (adj)	important
contract (n)	formal, signed agreement	legislation (n)	laws	structure (n)	how something is put together
definition (n)	what something means	labour (n)	work	subsequent (adj)	coming after
derived (<i>from)</i> (v)	coming from	major (adj)	important	theory (n)	An idea or belief (usually supported by evidence)
denote (v)	stand for	method (n)	way of doing something	variable (n)	A factor that might influence or change
distribution (n)	the spread of something	period (n)	chunk of time	worthwhile (adj)	worth doing
economic (adj)	to do with wealth and money	procedure (n)	Something which is done (e.g. an operation)	yearn (v)	To wish (usually for something you've lost)
establish (v)	Confirm or create something	perspective (n)	viewpoint	youthful (adj)	young 4

	EAR 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. They are vivid or bold in nature. They tend to advance in space and can be overwhelming.
Brimorry	Mistra aslassa



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.



BLUE

VIOLET

GREEN

GREEN

+

=

BLUE-VIOLET

BLUE-GREEN

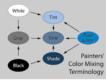
YELLOW-GREEN



Still life	A collectio together.	n of objects arranged	Reco Obse
Tone	mixture of a d	duced either by the colour with grey, or ng and shading	Prim obse drav in fro
Shade		of a colour with increases darkness.	Seco obse drav
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 app breadth but r	pearing to have length and no depth.	1000 Contraction of the contract
3 Dimensional	Having or app and depth.	pearing to have length, breadth,	MA Scan
	2H H F 4B 53 6B	Grades of PencilsPencils 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)	scan here to step by step guide; how to draw 3 shapes
to make objectPressing hard	jects looking flat, cts look 3D er and lighter wit	a range of tonal shading is essential h a pencil creates the different tones bu the tones usually darken	

- Shading straight across a surface will make an item appear flat
- ٠ 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.





MA	RK M	AKIN	G ID	EAS







LYMM YEAR 7 KNOWLEDGE ORGANISER - DAY OF THE DEAD

Tone

Scale

Line

Pattern

Block Colour

Symmetrical

Composition

Day of the Dead

- · 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 De 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 he 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 a tips for drawing, painting and much more!

		sindpes on the paper.
). ead	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.
m	Clay	Clay is the raw material used in ceramics. It is a versatile material that can be transformed into a variety of shapes.
er and !)	 Title (artist name) Images of the artis Facts/information (include your own op Own drawings Key words Consider creative presentation. 	and annotation inion)
.,	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.

	SET
A tone is produced either by the mixture of a colour with grey, or by both tinting and shading.	
Refers to the size of an object (a whole) in relationship to another object.	M.
One solid colour that does not differ in tone.	JA/L -
A mark formed by drawing.	A dic
Lines and shapes that are made up of exactly similar parts facing each other or around an axis	dime Day (deve using skele
The position and layout of shapes on the paper.	The c
A form of printmaking that has lines or images that can only be made once, unlike	Prima
most printmaking, which allows for multiple originals	Secon
A form of decoration made by scratching through a surface	Tertia

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.

YEAR 7 KNOWLEDGE ORGANISER - DAY OF THE DEAD

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.

at is a Diorama?

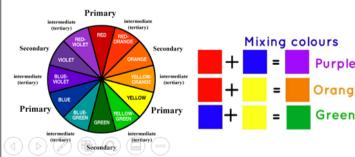
LYMM

prama is a model which represents a scene or story with threeensional figures.

of the Dead dioramas are based on the altars and retablos otional paintings) associated with the festival. They are made g tin or wood cages, known as nichos and contain collages of etons, skulls, flowers and photographs.



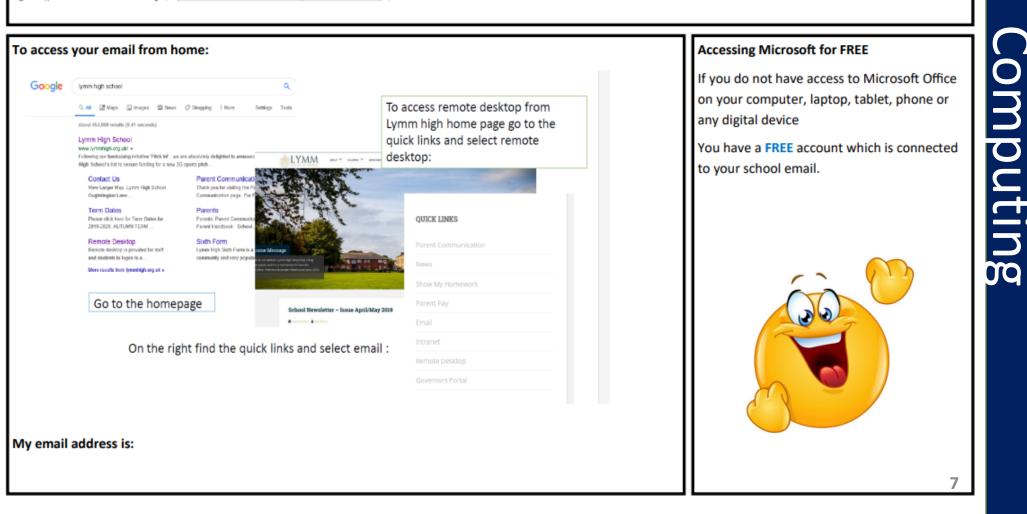
The colour wheel	This is a diagram that shows how colours are mixed or the relationship between colours.
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Finding your email address

Your email address is at the top of the application once it is open:

턂 5 Ŧ File Home	Send / Receive	Folder View 🗘 Tell me what	you want to do			nbox - /Turner@lymmhigł	1.org.uk - Outlook		
New New	Ignore Clean Up * Delete Junk *	Reply Reply Forward I More ~	JED Gran Email Gran Email Greate New Quick Steps	Move	Rules OneNor	te Unread/ Categorize F Read Tags	Search People	Store	



Computing

8

Accessing Microsoft for FREE

If you do not have access to Microsoft Office on your computer, laptop, tablet, phone or any digital device

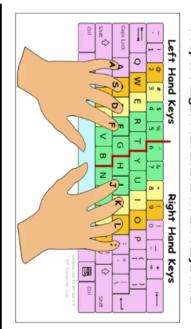
You have a FREE account which is connected to your school email address and this guide tells you how to do it.

Select the device that you have and follow those instructions:

		Office installed
Office apps individually on to you iPhone or iPad.	Therefore, you can access the document in school	vate and there you have it
To use Office on your iPad you need to install the	computer	Once done it will ask you to activate it, select acti-
	on your	Install It onto your computer
for Android and iPhone Only.	This actually saves it to the one drive rather than	ולאב הו מריהחוור להח מוצוובה ווו אווווי
Ween multiple apps.	Then you should see all you have access to	After signing in, follow the steps that match the
edit and share files without the need to switch be-	Click sign in. located at the top right	school password
introduces new mobile-centric features to view,	Go to https://www.office.com/apps	Sign in with your school emailed address and
Word, Excel and PowerPoint into a single app, and	school email address and password.	select sign in.
You can install the new Office app that combines	onto your computer or laptop, all you need is your	signed in,
You will need access to the app store for this -	You can use office 365 without actually installing it	Go to <u>www.office.com</u> and if you're not already
iPhone anosoio é iPad	MacBook Pro	swopuiM 🛃

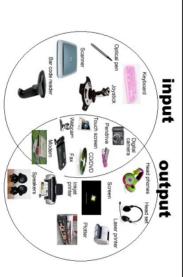


Proper Finger Placement on the Keyboard



Types of devices

A diagram of useful devices you might have come across



Useful Websites

https://www.teach-ict.com/

https://senecalearning.com/en-GB/

ttps://www.bbc.co.uk/bitesize/subjects/zvc9q6f

Link to the website

https://sense-lang.org/typing/tutor/keyboarding.php

Website key

when you are starting out. WPM stand for Words per minute and keyboard. It is OK for this to be low write in a minute without looking at the will show you how many words you can

WPM

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0:04

Į.

My Results

letters or words you got correct. The tick represents the number of

letters or words you got wrong. The cross represents the number of

SUCCESS Rate

Х

0

0

success rating from the lesson. At the end you will be given an overall

Settings

PAUSE

=

You can pause this tutorial at any point.

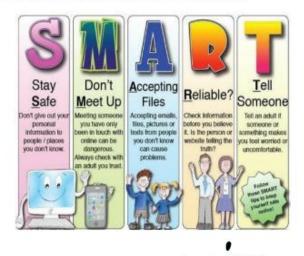
Staying Safe Online

	Key vocabulary	Definition
1	E-safety	Internet safety or online safety is trying to be safe on the internet
2	Cyber bullying	Is the use of electronic communication to bully a person, typically by sending messages of an intimidating or threatening nature.
3	Animated banner	Banner that moves between text and pictures.
4	Social networking	Social networking is the use of internet-based social media programs to make connections with friends, family, classmates, customers and clients.
5	Annotate	Label the diagram or print screens saying what each part is and why you have chose that design.
6	Visualisation diagram	Diagram/plan of the product you are designing.
7	Biased	Holding an opinion that often unfairly supports one argument, eg a football fan thinking that a referee's decision was wrong because it went against their team.
8	Mobile applications	Applications designed to run on mobile devices. These can be used for creating documents, taking pictures, listening to music, playing games or finding directions
9	Unauthorised access	Using a computer system without permission.
10	File	An object on a computer that stores data, information, settings, or commands used with a computer program.
11	Folder	A way to organise computer files. A folder is a storage space that many files can be placed into to group them together and organise the computer.
12	Emoil	Electronic mail - a method of exchanging messages between people using electronics and email addresses.
13	Security	Protecting yourself when using something that could be harmful or dangerous to you.
14	Report	A written account or an alert of an event or situation that can be used to seek help.
15	Child line	A 24 hour counselling service for children and young people where they can get help and advice on a range of issues
16	CEOP	Child exploitation and online protection centre.
17	Downloading	Transferring data from one device or network to another.
18	Internet	A communications system that connects computers and databases all around the world.

 Cyber bullying means to try to hurt someone's feelings by using technology the internet, email, chatrooms and texting.

 Dealing with
 bullying:

- Don't give out personal information in chatrooms, social websites, blogs, etc.
- Don't tell anyone, even your best friends, your passwords. They might be your best friend now, but what if you have an argument. They might log into your account and post really mean things and make it look like it was you.
- Don't' respond If you receive any mean or threatening messages in the chatroom, text or email, don't ever respond. You might be tempted to delete the message but don't. Save it and show an adult - you might need the message to use as evidence against the person who sent it.
- Contact the website If you find mean things have been said about you on a website, for example, Facebook, you can ask to have the comments removed. The same is true if you find out that photographs or videos have been posted without your permission.
- Tell someone
- Don't suffer in silence. If you are being bullied then tell your parents. If you don't feel that you can talk to them then tell a teacher or an adult that you trust. You mustn't keep it to yourself because if you do, the bully has got exactly what they want.





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 from1

Chatrooms: The main reason that your parents and teachers worry about you using chatrooms is because you can't always tell who you are talking to. Most of the time, someone you chat to will be genuine. You can have a conversation with them, have a laugh, tell each other about things and over time build up a real friendship.

But, you do need to be aware that not everyone in a chatroom is really who they say they are.

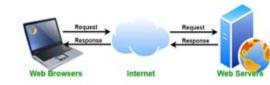
Saying safe in chatrooms:

- Tell your parents if you are planning to use a chatroom.
- · Use a nickname, so your real identity remains protected.
- · Never give out personal details!
- · Never send your picture to anyone!
- Always stay in the public chatroom
- Don't meet up in real life if you do really want to arrange to meet someone always take a responsible adult.
- This shouldn't be a problem because you won't give anyone your email address, will you? But, if for some reason you did give it out and you find someone is sending you emails with mean or rude pictures, don't open them and tell your parents immediately

Computer Hardware

へ	amhare	
	Key Vocabulary	Definition
1	Save	writing data to a storage medium, such as a CD-R, USB flash drive, or hard drive
2	Storage	mechanism that enables a computer to retain data, either temporarily or permanently
3	Document	An electronic copy of work, this could be in the form of a word document or PDF
4	Office 365	online version of the traditional installed version of Microsoft Office software
5	Teams	cloud-based team collaboration software that is part of the Microsoft 365. It allows for file sharing and electronic collaboration
6	One Drive	cloud service that connects you to all your files in school and at home.
7	Cloud computing	on-demand access, via the internet, to computing resources and applications
8	Network	Is a group of two or more devices connected together that can communicate
9	Web Server	a computer dedicated to storing web pages securely and delivering them to users when requested
10	Device	Any electronic equipment controlled by a CPU
11	Touch Typing	a method of typing without the use of the sense of sight, or simply by feeling the keyboard.
12	QWERTY Keyboard	The standard computer keyboard . QWERTY refers to the first six letters on the upper row of the keyboard
13	Hosting	Is a web server that stores and transmits the data for one or more websites
14	Peripheral	Is a hardware device used to transfer information into and out of a computer
15	Motherboard	is a computer's central communications backbone connectivity point, through which all components and external peripherals connect
16	Central Processing Unit (CPU)	is the most important hardware component in a computer. It has two main functions: to process data and instructions. to control the rest of the computer system.
17	Random Access Memory (RAM)	is volatile main memory . This means that once the computer is switched off, the data and instructions held in RAM are lost
18	Hard Disk Drive	Are non-volatile magnetic storage devices capable of remembering vast amounts of data.











Notes

Design and Technology

Year 7 Material Focus: Timber & Timber Products Types of wood.....

A division

You can have evergreen hardwood trees which do not lose there leaves and Deciduous tress which loses there leaves in winter

They can be very Expensive. Tend to have a tighter grain

tropical or sub-tropical countries such as South America Most evergreens are found in

These are usually quite hard. enclosed in the fruit that trees and the seed are They are broad leave

They generally grow in temperate climates including the British the tree produces Isles

They are slower growing trees it can take 100 years to grow fully

	ANA!	R.
2	14	
	E)	
2	100	
	-	
2	50	

The trees grow tall and straight which makes it easier for the manufacturer to These are usually softer and easy to work

They mainly grow in a cooler climate like Canada

cut long straight planks of wood

These cone baring trees are called conifers

They have a looser grain They are often used as building material. structure

Evergreen trees which means they do not lose there leaves.

These grow quite faster and so are cheaper

wood is board produced using industrial production techniques. It Manufactured wood- Manufactured, or man-made, Manufactured boards are usually made in very large sheets. consistency in strength, workability and texture. Their plain Designers choose manufactured boards when they require consists of gluing together wood layers or wood fibres.

appearance is often disguised by more decorative material.

veneered or plastic laminated. Shelving and general DIY work Structural panelling in building construction. Furniture making. Some grades used for boat building and exterior Used mainly for furniture and interior panelling due to its machining qualities. Kitchen and bedroom furniture when Furniture backs, covering curved structures. Door pan Manufactured boards (man made woods) neered or Usage Dainted Often work glued at 90degrees to each other. Interior and exterior grades available painted or stained. Also available in water and fire-resistant forms A very strong board which is constructed of layers of veneer or plies which are Made from chips of wood glued together. Usually veneered or covered in plastic laminate ensive particle n sometimes Avery inexpensive particl board which sometimes has a laminated plastic Smooth even surface. Easily machined and Description Type of wood MDF mediu fibre board

how plywood code to learn Scan the QR

manufactured S



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
Scan the QR		9849.00



processed.....

how timber is code to learn

Chipbo

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





Laser cutter

Tools and Equipment.....





■ 🚓 🌾 🔳 🚓 🎠 🖅 Scan the QR code to

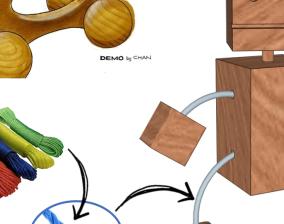
Shading an object to look like wood....

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.

YEAR 7 BLOCK-BOT PROJECT



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



Grain lines are a pattern of fibres that

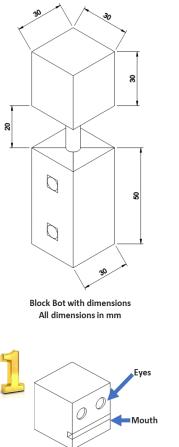
can be seen in a cut

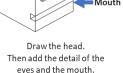
surface of wood

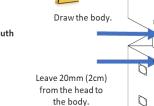
Grain Lines

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......







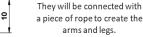
Rope

Legs

Hands









Product Analysis.....

YEAR 7

Arms

Feet

Then draw the neck.

The neck is made

from a piece of wooden dowel.

BLOCK-BOT PROJECT

Neck

Head

Body

Pine Wood

Final Block Bot Isometric Drawing

Aesthetics

Does the product look good? Does it make good use of colour and texture? What has inspired it's appearance? (E.g. is it organic? Is it industrial?)

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

Function

intended to do? How does it work? How easy is it to use?

use and user?

Does the product do the job it was

What effects will using it have,

including those beyond intended

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?

Cost

What is the estimated cost of the What is the product's cost in relation

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?

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

Material

Size

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?



analysing a produc

D

KS3 Design Technology Sentence Starters - Annotation Support

Analysing Sentence Starters	Annotation
I think that	
I liked/disliked this design as	Negatives:
It would appeal to a target audience of	What are the negatives about your design?
The strengths of this design are because	Positives:
The weaknesses of this work are because	What parts of your design work well?
	Improvements:
Aesthetically this design	What could you change and improve about your design?
The use of the colours means/allows	Environment:
Design Explanation Sentence Starters	What impact would your design have on the environment
	Manufacture:

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......

Describing Words

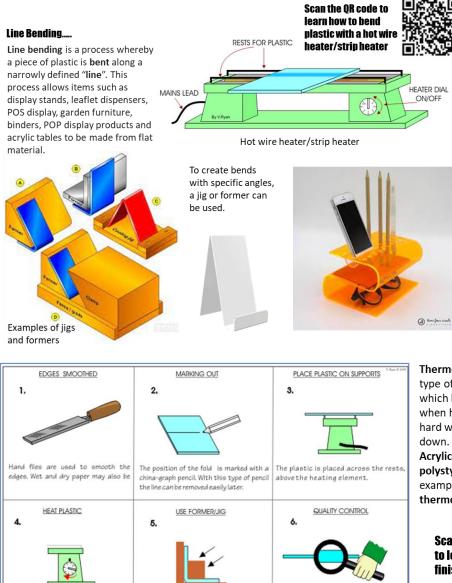
Accurate	Cheap	Curved
Attractive	Complex	Defective
Bland	Colourful	Delicate
Bright	Contrasting	Elegant
Bulky	Creative	Geometr

			What parts of y
ause			Improvemen
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			Environment
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			Manufacture
			How would you
			Target Mark
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Curved	Frag	ile	What materials
Curved Defective		;ile ginat	
	Ima		ive
Defective	lma Innc	ginat	ive ve
Defective Delicate	lma Innc	ginat ovati resti	ive ve

negatives about your design?	?
your design work well?	
nts:	
ou change and improve abou	t your design?
nt:	
would your design have on th	ne environment
e:	
ur design be manufactured?	
ket:	
is design appeal to and why?	?
ls would you use to create th	is?
,,	
Overlapping	Uneven
Repeated	Smooth
Rough	Subtle
Shiny	Suitable
Simple	Symmetrical

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

Manufacturing Processes



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



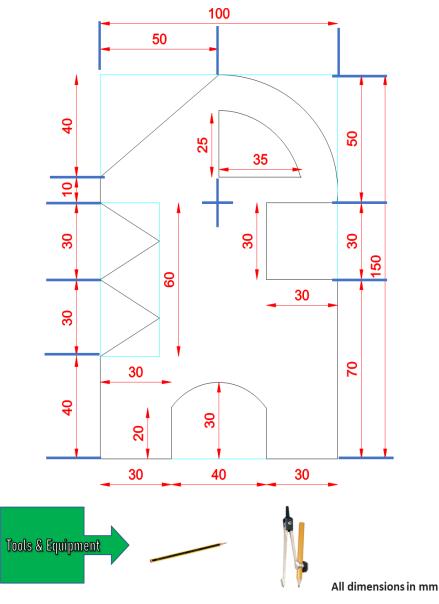
ade to the The quality of the formed plastic is 90 degrees. checked. Thermoplastic: A type of plastic which becomes soft when heated and hard when cooled down. Acrylic. PVC and polystyrene are examples of thermoplastics.

Scan the QR code to learn how to finish plastic



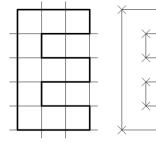
Driving Test

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



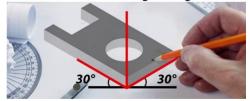
esign and **P**C golouu

Drawing using construction points.....



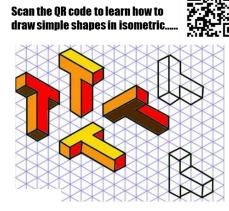


axes are drawn so that the two horizontal axes are drawn at 30 degree angles



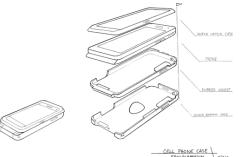
Exploded Isometric..... Exploded views

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.



Scan the OR code to learn how to draw simple shapes in exploded isometric....

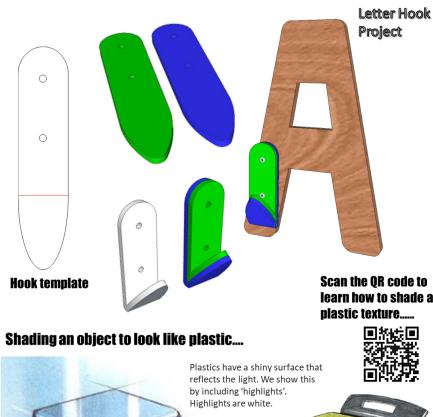


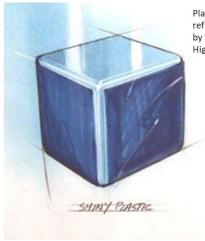


Exploded phone drawing......



Exploded watch drawing......





Scan the OR code to learn how to shade a



esign

and

DRAMA HALF TERM 1: Mime and Melodrama

duplicitous, wealthy, ugly,

the heroine. (Hides behind

clutching hands.

masculine, wants to capture

cloak, bent over, leads by his

Drama techniques

Freeze frames/still images/tableaux – a still 'photograph' showing a moment in time, actors remain frozen in a set position. **Thought tracking** – speaking the characters' thought aloud so the audience learn more about their emotions and reactions. Narration – telling a story or commentating on the action **Direct address** – speaking directly to the audience **Role play** – acting in role as a character **Mime** – using physical skills and gestures to act without speaking

> MELODRAMA STOCK CHARACTERS: these are stereotypes' - two dimension because they are not developed as they don't change or as a result of their experiences.



Hero: masculine, strong, proud, courageous, wealthy, attractive, limited intelligence but essentially good, protects the heroine. (Chest out, stands upright, chin elevated.)

Heroine:

Damsel in distress, pathetic, weak, beautiful, sweet, romantic, feminine. (Swings hips, walks on tiptoes, raised eyebrows)



Melodrama key facts

- Melodrama means drama accompanied by music.
- It was prevalent in the Victorian era (19th century) in theatres and then became popular in silent movies where the acting style became mimed so the actors had to use exaggerated facial expressions and body language.
- The plot and characters focus on communicating ٠ emotional stories and are exaggerated – not real life.
- There are stock characters who appear in all melodrama ٠ scenes: Hero, heroine and Villain
- A pianist would play live inside the theatre or cinema to provide the dramatic music
- The live performances took place in Victorian ٠ proscenium arch theatres:



Minor Melodrama Characters:

Villian's Side Kick – bumbling and stupid – used to create comic relief.

Old Man – often the heroine's father, poor, pathetic and gives in easily to the Villain.

Old Woman - often the heroine's mother, who is helpless and vulnerable.



YEAR 7 GREEK MYTHS AND LEGENDS **CREATIVE WRITING**



Ancient Gr	reek 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 Daedalus created giant wings so that together with his son Icarus, he could escape from the Minotaur's labyrinth. Icarus was too excited by the freedom of flight and flew too close to the sun which melted his wings. Consequently Icarus fell into the sea and drowned.
Prometheus is a <u>Titan</u> , who defies the gods by <u>stealing fire and</u> Prometheus	Theseus & the Minotaur
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 <u>eagle</u> , 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.	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	Jason and Medea
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.	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	Perseus
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, s lifted the lid of this jar and set them all free, thus marking the end of th Golden Age of Humanity.	Perseus killed the famed monster Medusa, the hideous gorgon with snakes for hair who turned anyone with the misfortune of looking into her eyes into stone. After he had slain Medusa, Perseus was said heto have used her head as a weapon against his enemies, since it e 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
CREATION: Eurynome lays a GOLDEN AGE: Titan rule SILVER AGE: Olympians Golden AGE: Titan rule take rule & create humans K wa	1628 - 1460 BCE RONZE AGE: humans are arlike & unruly. Zeus kills em with a greatflood. 5. 1460 - 1101 BCE HEORIC AGE: Heroes fight tyrants & monsters in an attempt to restore harmony. 6. 1101 - 560 BCE IRON AGE: The Gods abandon man. It is foretold this wicked race will destroy themselves. Greek Mythology
300,000 BCE - 50,00 BCE 50,000 BCE - 15,000 BCE 15,000 BCE - 3000 BCE 3	3000 все - 0 се 0 се - 3000 се 3000 все - 15,000 се

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.

A legand is usually based on a true event in the past Legands usually have
A story that has been created to teach people about something important and meaningful. They were often used to explain the world and major 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, sometimes over a very long period of time.
 The fact that so many people have taken the trouble to keep

Myth

Legend

The fact that so many people have taken the trouble to keep the story alive usually tells you that it has some very important meaning for the culture or area in which the story was first told.

Origins and purpose of Mythology

Myths had many purposes in Greek culture; many of 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 supernatural.
- Attempt to understand the world and universe.

P

19

Key Word Glossa	ry							
Heroine		A woman admired or idealized for her courage, outstanding achievements, or noble qualities						
Hero		A person who is admire	A person who is admired or idealized for courage, outstanding achievements, or noble qualities:					
Moral		Concerned with the pr	inciples of right and wrong behaviour and the good or evil of human character					
Protagonist		The leading character of	or one	e of th	e major character	s in a drama, movie, novel, or other fictional text.		
Antagonist		A person who actively	oppos	ses or	is hostile to some	one or something; an adversary		
Hubris	ĥ	Excessive pride or self	confic	dence.				
Checklist for effect	ive narratives		Lan	nguage	and Structural Featu	res		
An attention gra	abbing first sentence				Verb	A word to describe an action or state		
Clear descriptio	on of setting			Language	Dynamic verb	A word that describes continuous movement		
Well described				Jgl	Adverb	A word used to describe a verb or an adjective		
	establish tone/atmos reader to understan	-		lag	Adjective	A word used to describe a noun		
(plot)	reader to understan	u what is happening		Ö	Noun	The name of a person, place or object		
• Use of enigma/	mystery – questions to draw the reader in	that need answering h to the story – could be			Simile	a figure of speech involving the comparison of one thing with another thing of a different kind often using 'like' or 'as'		
0	of one of the other fe				Metaphor	Describing something as something else for effect		
• Clear sense of genre (genre means what type of story it will be e.g. mystery, horror, bildungsroman, thriller, romance etc.)					Personification	Giving an object human qualities		
 be e.g. mystery, Varied openings 	-				Onomatopoeia	Words used to create sounds. E.g. 'click'		
 Varied opening: Varied sentence 		freytag's pyramid			Alliteration	Words within the same sentence starting with the same letter or sound.		
	nbitious vocabulary	Cirriax			Exposition	The start of a text or extract		
A sense of pace		falling action	1	Str	Rising Action	The presentation of problems that creates suspense.		
A sense of actio		rising action resolution		uc	Climax	The most intense, exciting part of a text.		
something is ha			1	Structure	Linear	A text that is written in chronological order		
A moral purpos	e	exposition incident		ю.	Resolution	The part of a text where problems are solved.		

The House with Chicken Legs **By Sophie Anderson**

Plot Synopsis

All Marinka wants is a normal life, but this isn't easy when you live in a house with chicken legs and your grandmother is Baba Yaga, whose job is to guide the dead into the next world. And one day Marinka is expected to become the next Guardian of The Gate between this world and the next, although she just wishes that her house with chicken legs would stay somewhere long enough for her to make some friends.

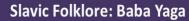
But when Marinka befriends Nina, the spirit of a young girl who refuses to go through The Gate, she discovers a shocking secret that changes everything. And as her world is turned upside down, Marinka learns that the life of an ordinary girl isn't any simpler than the life of a Yaga. Can Marinka escape her destiny, or will she be able to find a new way to live between two worlds?

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Key Characters			
Baba Yaga	Marinka's grandmother and Yaga (guardian of the Gate between the land of the living and the dead.)		
Marinka	12 Year female protagonist and the next Yaga. Both of her parents dies when she was a baby and she lives with Baba Yaga.		
Jack	Marinka's pet jackdaw and only companion.		
Benjamin	A living boy that Marinka hopes will become her friend.		
Chicken leg house	Baba Yaga and Marinka live in a house with legs, that has its own personality, loves and cares for the people who live in it.		

Key ' <mark>Golden</mark> ' Themes					
Fate and destiny Marinka is destined to become the next Baba Yaga but longs to be able to choose her own path.					
Supernatural Baba Yaga is a supernatural being and her house with chicken legs magically moves around from place to place.					
Conflict Marinka has internal conflict about her future and destiny. She is inbetween the world of childhood and adulthood, and she has family conflict with her grandmother.					
Life and death Marinka longs to live amongst the living but her role as future Yaga means she spends all of her time with the dead as she guides them into the stars. Ultimately learning that even death can inspire us to embrace life and that death doesn't mean the end.					
Loneliness The only people Marinka meets are dead. Other than her grandmother, Baba Yaga, and her Jackdaw Jack, Marinka is utterly alone and desperate for friendship.					
Love Marinka is a young girl who is desperate for security. She feels loved by Baba Yaga but misses the love of her parents that she lost at a very young age. Marinka searches for love and security in friendship – the close friendship and love of her pet Jackdaw, briefly her friendship with and other characters she encounters on her journey to adulthood.					
Betrayal Marinka feels betrayed by her grandmother and is thrust into the adult world too soon. The difference between the act of betrayal and how that feels versus the feeling of being betrayed by someone you love.					

Key Terminology				
Bildungsroman	A novel about growing up, or coming of age.			
Symbolism	The use of images and symbols to represent other ideas			
Fantasy	Fantasy is a genre of speculative fiction set in a fictional universe, often inspired by real-world myth and folklore.			
Folklore	The traditional beliefs, customs, and stories of a community, passed through the generations by word of mouth.			
Oral tradition	Or oral lore, is a form of communication where knowledge, art, ideas and cultural material is received, preserved, and transmitted by mouth.			
Anti-heroine	A female central character in a story, movie, or drama who lacks conventional heroic attributes.			
Allegory	A story, poem, or picture that can be interpreted to reveal a hidden meaning, typically a moral one.			
Guardianship	The position of protecting or defending something.			
Self-discovery	A series of events where a person attempts to determine how they feel, personally, about important issues.			
Ritual	A religious or solemn ceremony consisting of a series of actions performed according to a prescribed order.			
Didactic	A text that is intended to teach, particularly in having moral instruction as an ulterior motive.			
Exposition	The start of a narrative, or the explanation of background information.			
Protagonist	The main character of a story.			





In **Slavic folklore**, Baba Yaga is a supernatural being (or a trio of sisters of the same name) who appears as a deformed or ferocious-looking old woman. In Slavic culture, Baba Yaga lived in a hut usually described as standing on chicken legs. Baba Yaga may help or hinder those that encounter her or seek her out. She may play a maternal role and has associations with forest wildlife.

According to **Propp's folktale morphology**, Baba Yaga commonly appears as a caregiver, as a villain, or may be altogether ambiguous. Her depictions vary greatly across tales, ranging from a child-eating monster, to helping a protagonist find his missing bride.





Johns identifies Baba Yaga as: "one of the most memorable and distinctive figures in eastern European folklore"

Slavic countries





English

Further reading: Grimms Fairy-tales, The Girl Who Speaks Bear, I Shall Wear Midnight, The Girl of Ink and Stars, I Capture the Castle

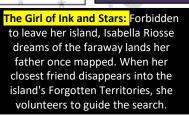






The Girl who Speaks Bear: Found abandoned in a bear cave as a baby, Yanka has always wondered about where she is from. She tries to ignore the strange whispers and looks from the villagers, wishing she was as strong on the inside as she is on the outside...

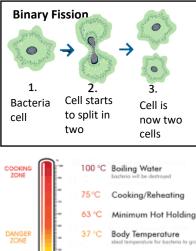




CAPTURE THE CASTLE THE CASTLE THE CASTLE Old a jound yett hou

I capture the Castle: 17-yearold Cassandra Mortmain keeps a journal, filling three notebooks with sharply funny yet poignant entries about her home, a ruined Suffolk castle. (J. K. Rowling recommends!)

1. Food Hygiene





The 4C's **CLEANING**

Keep yourself and your hands clean

- Wash your hands before handling food, every 30 minutes and always after going to the toilet
- Keep worksurfaces, equipment & utensils clean and disinfected Don't forget to clean dishcloths & cleaning equipment

COOKING

- Cook thoroughly
- Cook raw foods to 75°C at the core, check it with a probe thermometer
- Reheat foods to 75°C
- Never reheat food more than once

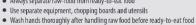
CHILLING

- 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

CROSS-CONTAMINATION

Prevent cross-contamination

Always separate raw-food from ready-to-eat food





Before Cooking: 1.

2.

3.

4.

5.

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

When Cooking:

1. 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.

Hygiene

Use By

Conditions and practices that prevent disease and illness through the act of cleanliness.

Best Before

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

2. Kitchen Safety

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.

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

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

cleaning work

surfaces.

quick clip about

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

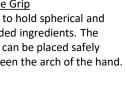








Bridge Grip



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The term used on products that degrade slowly and can be eaten past the date stated but may not taste or look as good.

4. Allergies Vs Intolerance

A true food allergy causes an immune system reaction that affects numerous organs in the body. It can cause a range of symptoms. In some cases, an allergic food reaction can be severe or lifethreatening. In contrast, food intolerance symptoms are generally less serious and often limited to digestive problems.



Nutrients- Vitamins and minerals

Examples-Strawberries, apples, carrots and cauliflower

Nutrients- Fats Examples- Olive oil, sunflower spread

Hand Mixer

Examples- Cereals, wholemeal pasta, brown rice

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.

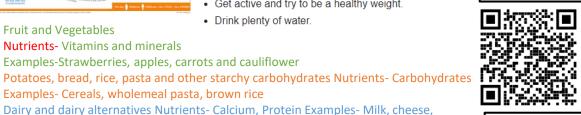
Dairy and dairy alternatives Nutrients- Calcium, Protein Examples- Milk, cheese,

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

- 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.



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







Scan to view a clip



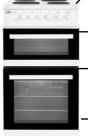
how fats can also fit more food help into a food processor. athletes.

about how fats work.

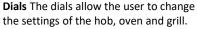
Scan to view a clip about

6. Electrical Equipment

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



Oven/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.



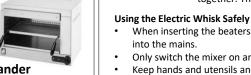
Salamander

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

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.



Fruit and Vegetables

voghurt, almond milk

Oils and spreads

fish, chick peas, soya, eggs

include; grilling, toasting,

Microwave

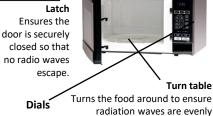
When inserting the beaters or removing them, make sure the mixer is not plugged into the mains. Only switch the mixer on and off when the beaters are submerged in the mixture.

- Keep hands and utensils and the electrical wire way from the beaters when in use.
- When cleaning the device, remove and wash the beaters in hot water. Wipe the body of the mixer with a damp cloth only.

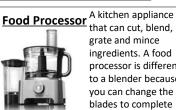
distributed.

This equipment is used to mix dry and wet ingredients

together. The mixer can be set to higher or lower speeds.



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.



ingredients. A food processor is different to a blender because you can change the blades to complete

different tasks. You

Little or no water is

food particles move

around the blade.

required to ensure the

Beaters

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7. Cooking Methods							gases. earest the iergy, and the pan, it is to drop il be oving in oving in to happen to happen e oven is ature.		
Braising	Deep Frying	Sautéing	Flambéing	Boiling	Simmering	Wet or Dry			gase eares eares s to d s to d oving so ha so ha e ove ature
		0:00				Cooking Methods Wet or dry refers to the texture of the	Conduction		This only happens in liquids and gases. The molecules of liquid or gas nearest the hot base of the pan gain heat energy, and start to rise in the pan. 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 heated up again. There is a convection current moving in the pan. Convection currents also happen 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.
Wet Slow	Dry Fast	Dry Fast	Dry Fast	Wet Fast	Wet Fast	cooked food so		••••••	nly hap olecula se of t o rise i liquid gin to o the k d up ag is a co rise rection round, kimate
Pieces of food are first browned in a	Frying pieces of food in a deep pot or	Cooking small or thin pieces of	After frying, alcohol is added to the	Food is cooked in deep boiling	Like boiling, but the liquid is kept just	baking and frying are dry cooking			 This only happen The molecules of hot base of the p start to rise in the start to rise in the back to the bottch heated up again. There is a convection ovec the provimately the approximately the start over the start ove
little fat, then cooked with some liquid in a closed pan.	fryer with plenty of hot oil or fat.	food in very hot oil or fat. The frying pan is shaken constantly to stop the food from burning.	food in the frying pan and set on fire. This adds another flavour to the food.	liquid (water, stock, wine etc) in an open or covered saucepan.	below boiling point in an uncovered pot.	methods and boiling and stewing are wet methods. <u>Fast or</u>	Convection		This happens when heat is directly touching a piece of equipment, or a piece of food. If you put a metal pan on an electric or gas hob, the heat from the hob will heat up the base of the pan. There are good conductors of heat, and bad conductors of heat. Metal conducts heat very well, which is why sucepans and frying pans, along with baking trays and cake tins, are made of metal. Water is also a good conductor of heat, which is why boiling foods works well and cooks foods quickly Wood, plastic, cloth and glass are poor conductors of heat.
Steaming	Stewing	Pan-frying	Broiling/Grilli ng	Roasting	Baking	<u>Slow</u> <u>Cooking</u>	Ğ		ens wi a piece the hea se of t se of t se of well, v also a g also a g uctors are po are po
						<u>Methods</u> Fast and slow methods refer to			· · · ·
Wet Fast	Wet Slow	Dry Fast	Dry Fast	Dry Slow	Dry Slow	how long it takes. Generally less than an			space or air. Radiation ough space by invisible aves. The waves are either aves Infra-red heat waves are Infra-red heat waves tood when they reach it, t inside the food which you put food under a grill. you put food under a grill. crowaves also uses waves are created by a ne oven. The microwaves i food, making the ind heat up, which then rowaves pass straight and plastic, and do not mage the magnetron so dc mage the magnetron so dc t into a microwave oven.
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.	Cooking food like steak or fish, over or under open heat, e.g. under the oven grill or on a barbeque or hot plate.	Cooking food like meat or poultry with some fat in a hot oven (between 200-240 degrees centigrade)	Cooking food like cakes, pies, bread etc. in a closed oven at a temperature of between 120-240 degrees centigrade.	hour is a fast cooking method and over an hour is a slow cooking method.	Radiation		 This occurs through space or air. Radiation transfers energy through space by invisible electron-magnetic waves. The waves are either infra-red or microwaves Infra-red heat waves are shored by the food when they reach it, and they create heat inside the food which cooks it. This happens when you put food under a grill. Cooking foods in microwaves also uses radiation. The microwaves are created by a magnetron inside the oven. The microwaves are reatight through glass, china and plastic, and do not heat them up. Metal will reflect the microwaves and damage the magnetron so do not put metal object into a microwave oven.

od lechnolog

Year 7 Half-Term 1 French Knowledge Organiser Unit 1: La rentrée

1 – Bonjour tout le monde!		
Bonjour.	Hello.	
Salut!	Hi!	
Comment t'appelles-tu?	What i	
Je m'appelle	My na	
Comment ça va? (Ça va?)	How a okay?)	
Ça va (très) bien.	ľm (ve	
Pas mal, merci.	Not ba	
Ça ne va pas!	Not go	
Et toi?	How a	
Au revoir.	Goodb	
À plus!	See yo	

5 - Tu es comment?	
Je suis	l am
Je ne suis pas	l am not
ll est/Elle est	He is/She is
amusant(e)	funny
arrogant(e)	arrogant
bavard(e)	talkative/chatty
fort(e)	strong
grand(e)	big/tall
intelligent(e)	intelligent
méchant(e)	nasty/bad
patient(e)	patient
petit(e)	small/short
timide	shy

_			
	Bonjour!	2 - Les no	mbres
).		un	1
		deux	2
t is	s your name?	trois	3
	ne is	quatre	4
	re you? (Are you	cinq	5
?)	e you: (Are you	six	6
	ry) well.	sept	7
		huit	8
	d, thanks.	neuf	9
-	od!	dix	10
about you? dbye.		onze	11
		douze	12
νοι	ı later!	treize	13
		quatorze	14
		quinze	15
		seize	16
		dix-sept	17
		dix-huit	18
	1		

trois	3
quatre	4
cinq	5
six	6
sept	7
huit	8
neuf	9
dix	10
onze	11
douze	12
treize	13
quatorze	14
quinze	15
seize	16
dix-sept	17
dix-huit	18
dix -neuf	19
vingt	20
vingt-et-un	21
vingt-deux	21
trente	30
trente-et-un	31

Key verbs!	
<mark>avoir</mark>	to have
j'ai	l have
<mark>il a / elle a</mark>	he has / she
<mark>être</mark>	to be
<mark>je suis</mark>	l am
<mark>il est / elle es</mark>	t he is / she is

has

3 - As-tu des frères et soeurs?	Do you have any brothe	rs or sisters?
Oui. J'ai	Yes, I have	
un frère.	one brother.	
une sœur.	one sister.	
un demi-frère.	one half-/step-brother.	
(deux) frères.	(two) brothers.	
(trois) demi-sœurs.	(three) half-/step-sisters	5.
Je n'ai pas de frères et soeurs	I don't have any brother	s or sisters
Je suis fils/fille unique.	I am an only child.	
Quel âge as-tu?	How old are you?	
J'ai (onze) ans.	l am (11) years old.	
	T II I I I I I I	
4 - Décris-moi ta famille	Tell me about your family	Sec.
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	
la (demi-)sœur	(half/step-)sister	
les parents	parents	

asseyez-vous écoutez levez la main

levez-vous

regardez

répétez

rangez vos affaires

•	Phonics!		
	Nasel sounds	– on, en b on jour, comm en t	
	silent	- p, s, t, x	
	consonants	de <i>ux, as</i>	
	un/une	un frère / une soeur	
	silent final e	amusant vs. amusant e	
	j/ge	janvier/j'aime	

-	
ons!	
	sit down
	listen
	raise your hand
	stand up
	tidy your things

look

repeat

Mon anr	ore re re	When is you My birthdo the (15th N the first January February March April May June July August September October November December	ay is on March/24t	h June)	J'a Je le le le le le	aime n'aime pas sport foot vélo collège cinéma	Do you like? I like I don't like sport football cycling school cinema fish		la danse la musique les pizzas les serpents les glaces les jeux vidéo les vacances les BD les mangas les araignées	dance music pizzas snakes ice cream video gan holidays comics manga spiders	
			10 00			1C3 30C413.					
e suis I am) I est He is) Elle est she is)	patient(e) arrogant (e) intelligent (e) de taille moyenne		J'ai	un frèr	re mi-frère	qui s'appelle qui s'appellent	Joseph Amy James	et	Sophie Elliot Lucy	ll est (he is) Elle est (She is)	patient(e) arrogant (e) intelligent (e) de taille movenne
l am) l est He is) Elle est	arrogant (e) intelligent (e) de taille moyenne			un frèr un den	re mi-frère	qui s'appelle	Amy	et	Elliot	(he is) Elle est	arrogant (e)

French

Year 7 Half-Term 2 French Knowledge Organiser Unit 2: En classe

Quelle heure est-il?	What time is it?
ll est	lt is
cinq heures	five o'clock
cinq heures dix/vingt	ten/twenty past five
cinq heures et quart	quarter past five
cinq heures et demie	half past five
cinq heures moins dix/vingt	ten/twenty to five
cinq heures moins le quart	quarter to five

midi/minuit

2	1
12	11-
6.	1 day

midday/midnight

Unité 2 Qu'est-ce que tu portes?						
Qu'est-ce que tu portes?	What do you wear?					
je porte	I wear					
on porte	we wear					
l'uniforme scolaire	school uniform					
un pantalon	trousers					
un polo	polo shirt					
un pull	jumper					
un sweat	sweatshirt					
un tee-shirt	tee-shirt					
une chemise	shirt					
une cravate	tie					
une jupe	skirt					
une veste	jacket/blazer					
des chaussettes (f)	socks					
des chaussures (f)	shoes					
des baskets (f)	trainers					
chic	smart/stylish					
confortable	comfy/comfortable					
démodé(e)	old-fashioned					
pratique	practical					

What do you think of your
subjects?
French
drama
geography
music
technology
English
P.E.
history
I.C.T.
art
maths
science
to like
to hate
to love

Voici	ma	salle	de	classe!

Qu'est-ce qu'il y a sur la photo? What is on the picture? Sur la photo, il y a ... un tableau (noir/blanc) un poster un/une prof (professeur) un écran un ordinateur une porte une fenêtre une tablette des tables des chaises des élèves au fond/au centre à gauche/à droite

On the picture, there is / are... a (black/white) board a poster a teacher a screen a computer a door a window a tablet some tables some pupils some pupils at the back/in the middle on the left/on the right



i like?	
like like	car parce que
lt/hard. stina.	



the teacher is kind le/la prof est trop sévère the teacher is too strict j'ai trop de devoirs I have too much homework



C'est	lt's
sympa.	nice.
génial.	great.
moderne.	modern.
triste.	sad.
nul.	rubbish.
démodé.	old-fashioned.



because

Year 7 Half-Term 2 French Knowledge Organiser Unit 2: En classe

Unité 3 Ta journée scolaire est comment?

Ta journée scolaire est	What is your school
comment?	day like?
je quitte la maison	I leave the house
j'arrive au collège	I arrive at school
je retrouve mes copains	I meet (up with) my friends
on commence les cours	we start lessons
je mange à la cantine	I eat in the canteen
je chante dans la chorale	I sing in the choir
je joue dehors	I play outside
on recommence les cours	we start lessons again
je rentre à la maison	I go home
à (quatre) heures	at (four) o'clock

Key verbs!	
avoir	to have
j'ai	l have
tu as	you have
il a / elle a	he has / she has
être	to be
je suis	l am
tu es	you are
il est / elle est	he is / she is
aimer	to like
j'aime	l like
tu aimes	you like
il aime / elle aime	he likes /she likes
détester	to hate
je déteste	l hate
tu détestes	you hate
il déteste / elle déteste	he hates / she hates

Unité 4 C'est comment, un collège français? Quel est ton jour préféré? Mon jour préféré, c'est le ... J'ai deux heures d'anglais. C'est ma matière préférée. Je suis fort(e) en maths. l'emploi du temps la rentrée les vacances

there is

I am not

dev**oi**rs

histoire

maths

je porte / rouge

anglais / amusant /

ennuyeux / grand

it is

Iam

Key phrases:

je ne suis pas

il y a

c'est

ie suis

Phonics!

oi (wah)

silent h

silent final e

consonants

th (t)

silent

What's your favourite day? My favourite day is ... I have two hours of English. It's my favourite subject. I am good at maths. timetable start of new school year holidays

Les jours de la semaine
lundi
mardi
mercredi
jeudi
vendredi
samedi
dimanche

Monday Tuesdav Wednesdav Thursday Friday Saturday Sundav

Unité 5 Un collège super cool

Le collège est ... grand / petit. de taille moyenne. Il y a 500 élèves. On étudie ... le japonais. la cuisine. les arts martiaux. ll y a ... un cinéma en 3D. une piscine. des courts de tennis. Il n'y a pas de ... harcèlement. toilettes sales. profs trop sévères. on porte ... Tu es d'accord? Je (ne) suis (pas) d'accord! I (dis)agree!

The school is big / small. medium-sized. There are 500 pupils. We study Japanese. cookery. martial arts. There is ... / There are ... a 3D cinema. a swimming pool. tennis courts. There isn't ... / aren't ... bullying. dirty toilets. too strict teachers. we wear ... Do you agree?



Year 7 Half-Term 2 French Sentence builders Unit 2: En classe

J'aime / J'adore / Je n'aime pas (I like / I love / I don't like)	bloguer / retrouver mes amis / chanter (blogging / meeting my friends / singing)	car c'est (because it is)	· · ·		énial / barbant rilliant / boring)			
Dans ma salle de classe (In my classroom)	ll y a (there is / are) ll n'y a pas de (there isn't / aren't)	Un écran / une fené chaises (a screen / a windo		au fond / à gauche (at the back / on the left)		C'est (it is)		sympa / démodé (nice / old-fashioned)
Moi perso (Personally)	j'adore (I love)	la géographie (geog	raphy)	mais (but)		je n'aime pas (I don't like)		l'histoire (history)
Personnellement (Personally)	j'aime (I like)	l'anglais (English)		parce que c'est (because it's)		vraiment (really)		facile (easy)
Dans mon collège (In my school)	on porte (we wear)	une cravate noire (a	a black tie)	je pense que c'est (I think i		it's) démod		é (old-fashioned)
En France (In France)		des baskets (trainer		Je pense que c'est (i trinik				e (practical)
D'abord (First of all)	je quitte la maison (I leave the house)	à huit heures (at 8'	clock)					
Puis (Then)	on commence les cours (we start lessons)	à huit heures vingt-	cinq (at 8.25)					
Mon jour préféré (my favourite day)	c'est le mardi (is Tuesday)							
Le français, (French)	c'est ma matière préférée (is my favourite	subject)						
Je suis fort(e) (I am good/strong)	en maths (at/in maths)							
Le collège est (The school is)	grand (big)							
On étudie (We study)	le japonais (Japanese)	et (and)	c'est cool (it	s' s cool)				
Il y a (There is)	une piscine (a swimming pool)							
ll n'y a pas de (There isn't)	harcèlement (bullying)							
On porte (We wear)	un jean et un tee-shirt (jeans and a t-shirt)							

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	M	M	M	V
United Kingdom	Ø	Ø	Ø	Ø	
Great Britain	V	V	V		

	How do waves form?	Types of	Waves	Coastal Defences				
Waves are created by wind blowing over the surface of the		Constructive Waves Destructive Waves		Hard Engine	Hard Engineering Defences			
	sea. As the wind blows over the sea, friction is created - producing a swell in the water. Size of waves	This wave has a swash that is stronger <mark>than the backwash.</mark> This therefore builds up the coast.	This wave has a backwash that is <mark>stronger</mark> than the swash. This therefore erodes the coast.	<mark>Groynes</mark>	Wood barriers prevent longshore drift, so the beach can build up <mark>.</mark>	 ✓ Beach still accessible. × No deposition further down coast = erodes faster. 		
Affected by: - Fetch how far the wave has travelled - Strength of the wind. - How long the wind has been blowing for.				Sea Walls	Concrete walls break up the energy of the wave . Has a lip to stop waves going over.	 ✓ Long life span ✓ Protects from flooding ✓ Curved shape encourages erosion of beach deposits. 		
1 2	Why do waves break? Waves start out at sea. As waves approaches the shore, friction slows the base.	Direction of longshore drift	What is Transportation? A natural process by	Gabions	Cages of rocks/boulders absorb the waves energy, protecting the cliff behind.	 ✓ Cheap ✓ Local material can be used to look less strange. ✓ Will need replacing. 		
3 4	This causes the orbit to become elliptical. Until the top of the wave breaks over.		which eroded material is carried/transported. Material is carried along the coastline via a	Rock Armour	Piles of large rocks based at the bottom of the cliff to absorb the waves energy	 ✓ Cheap ✓ Can be used to fish off X Can be expensive to transport 		
	Deep water waves Waves feel Breaking not affected by bottom bottom and steepen waves	prevailing wind	process called Longshore	Soft Engineering Defences				
Motion of Individual Direction of Waves		Year 7 - Coasts			Beaches built up with sand, so waves have to travel further before eroding cliffs.	 Cheap Beach for tourists. Storms = need replacing. Offshore dredging damages seabed. 		
Molecu	les	What is Deposition?	vial moved along Coastline changes h in zg-zag way direction		Case Study: Holdern	ess Coastline		
Types of Erosion The break down and transport of rocks – smooth, round and <mark>sorted.</mark>		When the sea loses energy, it drops the sand, rock particles and pebbles it has been carrying. This is called deposition. Heaviest		Location and Background Located on the North East coast of England. It has one of the highest rates of coastal erosion in Europe. The coast is made up of mainly Boulder clay, with a chalk headland to the north.				
At	trition Rocks that bash together to become smooth/smaller.	material is deposited first.			Geomorphic Processes -1.8m of land is lost to the sea every year.			
	Iution A chemical reaction that dissolves rocks. rasion Rocks hurled at the base of a cliff to break pieces	Formation of Coastal Spits 1) Swash moves up the beach at the angle of 2) Backwash moves down the beach at 90° to	the prevailing wind. Example:	strategies fu -Longshore	In Great Cowden the rate of erosion is 10m per year due to management trategies further north in Mappleton (groynes) Longshore drift travels from south from Flamborough Head to Spurn Head where forms a spit.			
	draulic Water enters cracks in the cliff, air compresses, causing the crack to expand.	 Backwash moves down the beach at 90° to coastinne, due to gravity. Zigzag movement (Longshore Drift) transports material along beach. Coast changes direction, but transportation continues out to sea and Deposition occurs, creating a spit. Change in prevailing wind direction (or a flowing river) forms a hook. Sheltered area behind spit encourages deposition, salt marsh forms. 			Management - Over 11km of the coastline is managed Mappleton – 450m of coastline protected costing £2million. - 2 rock groynes to create beach and protect town. - rock armour along base of cliff to absorb wave power Hornsea – Seawall and groynes			
Erosional landforms Erosional landforms Withernsea – Sea wall, groynes and rock armour.					iour.			
	Formation of Bays and Headlands	Formation	of Coastal Stacks		Formation of Wave cu	ut notches and platforms		
S	 Waves attack the coastline. Softer rock is eroded by the sea quicker forming a bay, calm area cases deposition. More resistant rock is left jutting out into the sea. This is a headland and is now more vulnerable to erosion. 	Collapsed arch	 Hydraulic action widens cracks in the cliff for over time. Abrasion forms a wave cut notch between tide and low tide. Further abrasion widens the wave cut notch from a cave. Caves from both sides of the headland breat through to form an arch. Weather abroe/erosion below -arch collar 	high h to ak ^{Wave-cr} Noteh	Chiff Recogning Wave Mitck Zope High Tid	 Waves attack the coastline. Waves cut a notch into the bottom of the cliff face The rock above collapses. This process repeats, 		

Example: Old Harry Rocks, Dorset

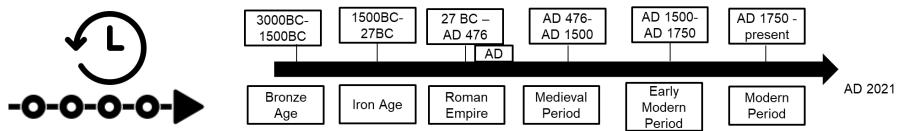
Headland

Weather above/erosion below –arch collapses leaving stack. Further weathering and erosion eaves a stump. 5)

6)

This process repeats, leaving a wave cut platform 31 31

Year 7: Unit	1 – What is History	1?
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 Interpretation		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	вс	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 1AD.
	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
	Industrial period	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 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'.



History

Year 7: Unit 2:	The Norman Conquest – How did William take co	ontrol 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 deathbed. The next day, the Witan (the royal council) declared	owerful English nobleman. According to the Anglo-Saxon Chronicle, Edward named Godwinson as his successor on his 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	WHY DID WILLIAM WIN THE BATTLE OF HASTINGS?				
4 th Jan 1066	The death of Edward the Confessor, King of England.					
6 th Jan 1066	Harold Godwinson was crowned King of England.	■ <u>Tactics</u> : Duke William had <u>many years of battlefield experience</u> . The				
25 th Sept 1066	The Battle of Stamford Bridge, near York. King Harold Godwinson's army defeated Harold Hardrada and his army.	feigned retreat that his cavalry used to break the shield wall was a tactic his armies had used before in Normandy.				
27 th Sept 1066	Duke William of Normandy set sail for England with his army.	Leadership : ^M ∕ William was very successful in keeping together his large army in a				
28 th Sept 1066	Duke William landed at Pevensey on the South Coast of England.	foreign country <u>. He planned carefully</u> and was <u>experienced</u> . Harold's army appeared invincible for much of the battle but William and his				
1 st Oct 1066	King Harold received news of the Norman invasion. He began to march his army South to defend England from the Norman invasion.	commanders continued to fight. At important moments in the battle <u>he</u> <u>boosted his men's morale</u> and most importantly stayed alive.				
Early Oct 1066	The English army arrived in the South.	Fortune : William was also very fortunate , because: if he had invaded in the				
14 th Oct 1066	The Battle of Hastings began. King Harold was killed.	summer, as Harold expected him to, he would have fought an English				
25 th Dec 1066	William, Duke of Normandy was crowned King William I of England.	 army twice as large but, instead, <u>the winds stopped William from</u> <u>crossing the channel.</u> The same wind that brought Harald Hardrada from Norway to York also allowed William to cross from Normandy to 				
1069-1070	The Harrying of the North	Pevensey. This meant William landed unopposed.				
August 1086	First draft of Domesday Book completed.	Harold II's death was also a turning point;				
9 th Sept 1087	William I died.	if he had survived then the battle may well have restarted the following day.				

KEY INFORMATION – How did William take control of England?

<u>KEY TERMS</u>

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 <u>could tax them correctly</u> . 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 <u>1085</u> , William <u>sent Royal Commissioners all over</u> <u>the country</u> to <u>collect this evidence</u> . People, animals and land were all counted so that William could see how rich or poor his subjects were.	Conquer	To invade and take over an area by force, often using an army.	
Onande La Start Op Fragmit Design Sont Kaur Propied		Housecarls	Well-trained, full-time, paid, Anglo-Saxon soldiers.	
Harrying	The most serious rebellion in the north of England in 1069 . The Saxons			
of the North ራረታ ኢን አ	killed William's trusted friend, Earl Robert & 900 of William's soldiers. <u>The Earls Morcar & Edwin turned against William</u> , <u>helped by</u> a small force of <u>Vikings.</u> They <u>seized York</u> and threatened to set up a separate kingdom in northern England. <u>William ordered villages to be destroyed</u> <u>and people to be killed</u> . Herds of animals and crops were burnt. Most people who survived <u>starved to death</u> ; there were stories of <u>people</u> <u>turning to cannibalism</u> . The <u>population was reduced by 75%</u> and <u>land</u> was <u>covered in salt</u> to prevent people growing crops in the future.	Fyrd	Farmers who fought for the Anglo-Saxons	
		Cavalry	Knights on horses.	
William then placed loyal nobles in charge to look after his lands.		The Bayeux	A piece of artwork on cloth that shows the events leading up to the Norman Conquest, including the	
The feudal System			Battle of Hastings.	
			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, some in just eight days! From their castles, the new <u>Norman</u> lords could control the local area, and the sight of them <u>made it clear</u> <u>who was now in control</u> . The need for quick constructions meant materials such as earth and wood were used and although this	Knights	A man of noble birth, who served his king or lord or baron in battle in return for land.	
		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 rebuilt from stone.	Oath	A promise, usually sworn in front of God or on a holy 34 book.	

History

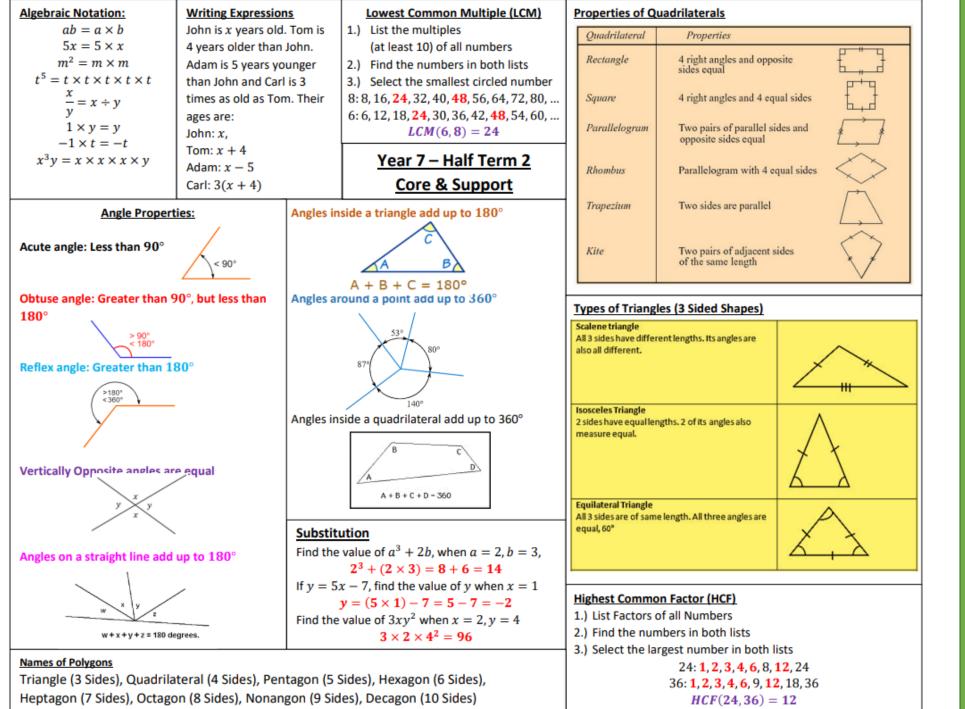
<u>Year 7:</u>	Unit 3 – Medieval Religion	
TOPIC	KEY INFORMATION	
Christian beliefs	Most medieval people led short lives, dying at the age of around 35. As a result of short life expectancy, most people relied on the church for answers as there was huge fear of what would happen after they died. Many 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 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 ceremonies were taken very seriously.	
Role of priests, monks and nuns	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 nuns playing a very significant role within medieval society. Most villages had a priest who ran the local churches and who dedicated their life to helping his community, as well as help his parishioners get to heaven. A priest's primary job was to deliver sacraments which consisted of baptisms and marriage ceremonies, as well as hearing confessions and delivering last rites. Some men decided to become monks and some women chose to become nuns. Both monks and nuns made the vows of poverty 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 .	Ξ.
Crime	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 according to medieval people meant that the individual was guilty .	story
Warfare	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.	
Science	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, 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', scientists would explore the purpose behind God creating a particular plant or animal. Instead of looking for scientific explanations, like evolution and photosynthesis, medieval people looked to God for explanations.	
Medicine	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 the hope to prevent illness.	

Year 7: Unit 3 – Medieval Religion

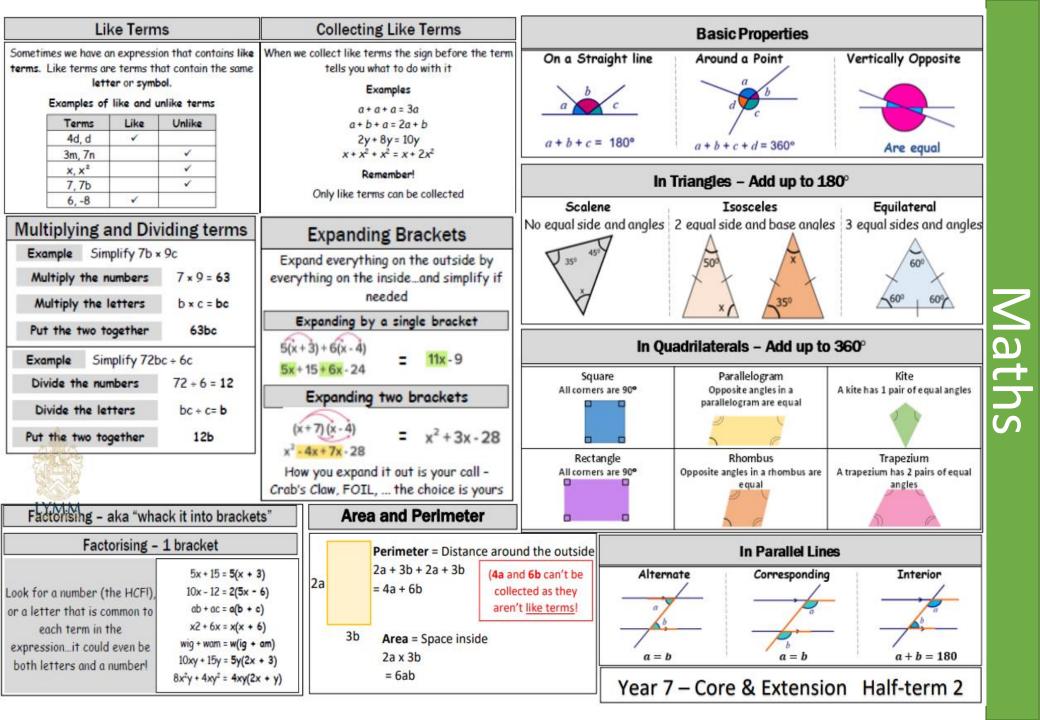
	KEY TERMS					1 3	
Catholicism	The Christian Church	and beliefs which are followed by Catholics.					
Роре	Head of the Catholic	Church.				CALL STOR	
Afterlife	The experience some	e people believe they	will have after death.				
Purgatory	Purgatory A place where medieval Christians believed they would be tortured until they had made up for their sins and bad thoughts.				ns and bad	STATISA.	
Soul	Christians believe thi	s is a part of a perso	n that can exist after death.			Se	
Monastery	The collection of buil	dings that monks live	e in.				
Mass	A Christian religious	service performed by	/ a Catholic priest.				
Ten Commandments	A list of rules given to	o Moses by God, whi	ch Jewish and Christian people a	re expected to obey.			
Penance	A punishment for a s	in.					I
Trial by ordeal	Trial by ordealThe guilt or innocence of the accused was determined by subjecting them to a painful, or at least an unpleasant, usually dangerous experience.			npleasant,		ist	
Parishioner	A person who lived in a priest's parish (the area for which he provided services)			THE AND	0		
Excommunication When a person were an excomm			ices. A medieval person thought th	ney were at greater risk of goir	ng to hell if they		ry
Chancellor	The King's chief serva	ant.					
Timeline of the relationship be	etween Henry II and Thoma	s Beckett					
1154: King Henry IItoappointed ThomasAriBeckett as his royalBechancellor. His job wasBeto look after the churchand the King's lawcourts. During this timeinHenry and Beckett werewigood friends andpeBeckett lived a luxuriousHelife style.the	62: Henry asked Beckett become the new chbishop of Canterbury. eckett began to live a ore holy life style and udied religion. However, the same year Beckett signed as chancellor thout Henry's ermission. Beckett and enry began to argue and eir relationship eakened.	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?'	29th December 11 burst into the Arch Canterbury. The kn Beckett left Englan refused. Monks fea life was in danger. G knights demanded England. Beckett re to a pillar. Realising leave, the knights s times, cutting off t On their departure scooped out his br them on the floor!	bishop's Palace in hights demanded d, however, he ared that Beckett's Once again the Beckett leave efused, clinging on ghe would not struck him five he top of his head. t, one of the knights ains and smeared	36

Order of Operations	Powers and Roots:	Fractions		
BIDMAS	A Square number is formed by multiplying a number by itself. We use the notation 1^2 , 7^2 etc.	Simplifying	Fraction of an Amount	Mixed Numbers
() X ³ ÷or X +or - Brackets Indices Divide & Multiply Add & Subtract Order of Operations	$1 \times 1 = 1$, $2 \times 2 = 4$, $3 \times 3 = 9$ A Cube number is made by multiplying a number by itself and again. We use the notation 6^3 , 12^3 etc. $1 \times 1 \times 1 = 1$, $2 \times 2 \times 2 = 8$	To write a fraction in its simplest form, (cancel down), you must divide both parts by their HCF $\frac{14 \div 7}{2} = \frac{2}{2} \qquad \frac{4}{2} \div \frac{2}{2} = \frac{2}{2}$	Step 1: Divide by the denominator Step 2: Multiply by the numerator Find $\frac{3}{4}$ of 20	Improper \rightarrow Mixed $\frac{13}{4} = \frac{4}{4} + \frac{4}{4} + \frac{4}{4} + \frac{1}{4} = 3\frac{1}{4}$
Key Definitions: Factors: The numbers we can divide by with no remainder. The factors of 12 are:	Higher powers also exist. $3^4 = 3 \times 3 \times 3 \times 3 = 81$ The square root of 25 is 5, since $5 \times 5 = 25$.	21 ÷ 7 3 10 ÷ 2 5 Add and Subtract Look for a common denominator	Step 1: 20 ÷ 4 = 5 Step 2: 5 × 3 = 15 Multiplying	$Mixed \rightarrow Improper$ $3\frac{2}{5} = \frac{3x5+2}{5} = \frac{17}{5}$
1,2,3,4,6,12	We use the notation: $\sqrt{25} = 5$ The cube root of 64 is 4, since $4 \times 4 \times 4 = 64$.	Cross - Cross - Smile	Multiply the numerators	Calculating
<u>Multiples:</u> Another word for a times-table. The first 6 multiples of 8 are: 8,16,24,32,40,48,,	We use the notation: $\sqrt[3]{64} = 4$ The fourth root of 16 is 2, since $2 \times 2 \times 2 \times 2 =$ Multiplication	$\frac{\frac{2}{3}}{\frac{10}{15}} + \frac{17}{5} = \frac{22}{5} \cdot 1\frac{7}{15}$	Multiply the denominators $\frac{3}{7} \times \frac{2}{5} = \frac{3 \times 2}{7 \times 5} = \frac{6}{35}$ $\frac{2}{7} \times \frac{4}{5} = \frac{4}{35}$	Step 1: Convert to an improper fraction Step 2: Calculate
Primes: Can only be divided by 1 and itself. The first 8 primes are: 2,3,5,7,11,13,17,19	391 × 39 3 9 1 × 3 9 9x1=9 9x1=9 9x1=81	$\frac{\frac{7}{8}}{\frac{49}{56}} + \frac{\frac{24}{56}}{\frac{25}{56}} = \frac{25}{56}$	$1\frac{2}{3} \times 2\frac{4}{5}$ $\frac{5}{3} \times \frac{14}{5} = \frac{5 \times 14}{3 \times 5} = \frac{70}{15} = 4\frac{10}{15}4\frac{2}{3}$	Step 3: Convert to a mixed number
(Note: 2 is the only EVEN prime and 1 is NOT prime!)	3 5 1 9 (put the 1 down; carry the 8) 9 x 3 = 27 8 2 2 + (carried) 8 = 35		Division	Number Line:
Integers: Another word for a whole number: -100, -5, 0, 27, 462 etc. Product: ×	1 1 7 3 0 2	98 \div 7 becomes 432 \div 5 becomes 1 4 7 9 8 5 4 4 7 9 8 5 4 3	6 r2 4 5 r1	The final answer is $45\frac{1}{11}$, Why? -3
Sum/Total: + Quotient: ÷ Diff. Between/Subtract: -	Last of all, we add the results of our calculations to get the answer. 3519 + 11730 = 15249 3x 3 = 9 (plus the 2 which makes 11)	Adding and Subtracting Directed Numbers: Always draw a number line if you	Numbers:	<u>g Directed</u> + ÷ −= − 0 +
Square Numbe 1, 4, 9, 16, 25, 36, 64, 81, 100 121, 144, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 225, 256, 289, 196, 206, 206, 206, 206, 206, 206, 206, 20	49, 169, 1, 8, 27, 64, 125, 216, 343, 512, 729, 1000, 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47,	unsure or think of a Thermometer Subtract means to get colder. Addinget warmer etc. 5-7 = -2, -2-9 = -11, -3 $9 \oplus 5 = 9 - 5 = 4$ $-12 \oplus 8 = -12 + 8 = -12$	d means $+ \times -= -$ + 9 = 6 $-7 \times -8 = 56$ 6 $\times -12 = -72$, -	$ \begin{array}{c} \dot{+} + = - \\ \dot{-} + = + \\ -42 \div 6 = -7 \\ 32 \div -8 = 4 \\ 9 \div -9 = -1 \end{array} $ $ \begin{array}{c} 1 - \\ 2 - \\ 3 - \\ 4 - \\ 4 - \\ \end{array} $

Maths



Maths



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

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

Pulse - The tempo creates a **pulse**, which is the music's heartbeat.

<u>BPM</u> – Beats per minute, the rate of the pulse.



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

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

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

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

Percussion - 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

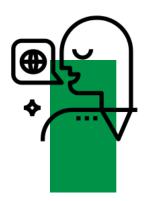
Dotted Rhythms - A dot after a note **increases** its value by **half** of whatever the value was. So, a dotted crotchet lasts for one and a half crotchets (1.5) but a dotted minim last for one and a half minims (3).

Symbol	Name	Duration
Ο.	Dotted semi-breve	6
J .	Dotted minim	3
٦.	Dotted Crotchet	1 ½
	Dotted quaver	¾

<u>Metre</u> - 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	BPM
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	$\overline{\ }$
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)

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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. .

eligious Studies

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	A philosophical argument which suggests God must exist and be the creator of the world because only He could design something so complex.			
Causation Argument	A philosophical argument which suggests the only possible first cause of the universe is God.			



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.

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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.

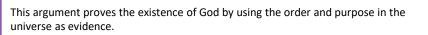


The argument's premises are...

- 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!

Design Argument for the Existence of God



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 everything needs a cause then what caused God?

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

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?

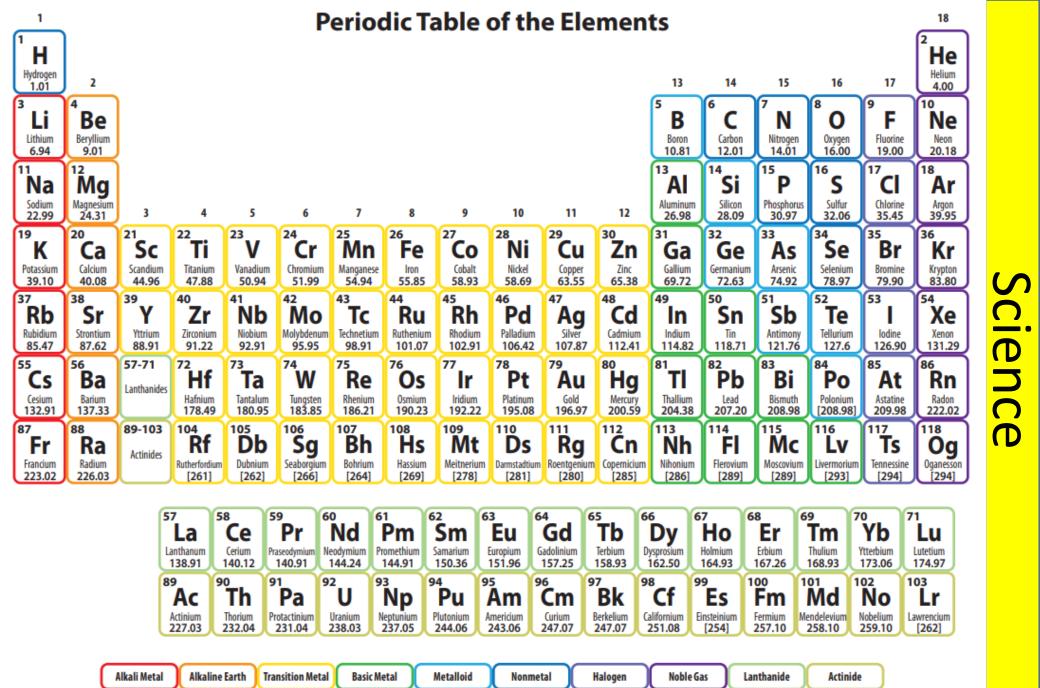
Criticisms 2. Evolution explains that life has adapted to survive on earth and not that life was designed for earth.

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	Y7 Bio T1- Living systems	Drawing of the cell	Function	Specialised Features
1. Framework gives shape & support to the body.		Red blood cell	Transports oxygen around the body	-No nucleus so can carry more oxygen -A biconcave shape so is flexible to squeeze through small blood vessels
 Bones protect the internal organs. Major muscles of the body are attached to the bones for movement. Blood cells are formed in marrow of some bones. 	Animal cell	Nerve cell (neurone)	Transmits nerve impulses	-Long and thin -Contains fibres which connect to other nerve cells -Surrounded by a cover which insulates it and speeds up transmission of nerve impulse
5. Skeleton is a place where calcium and phosphorus compounds are stored .	Milochondrion	Muscle cell	Contracts (to provide muscle movement)	-Contain many mitochondria to provide energy for movement
Muscular System System System System Respiratory System System System System	Cell Part Function Nucleus • Controls the cell • It contains DNA Cytoplasm • Where chemical reactions take place	Sperm cell	Fertilises the female egg	-Has a long tail to swim to the egg. -The mid piece is packed with mitochondria to provide energy for movement. -Streamlined shape to help it swim -Head contains enzymes to break into the egg
F. G. H. June	Cell membrane • Controls the passage of substances into and out of the cell	Drawing of the cell	Function	Specialised Features
Digestive System Endocrine System System System System	Mitochondrion • Where energy is released by respiration	ender Palisade cell	Absorbs light for photosynthesis	-Packed with chloroplasts which contain the pigment chlorophyll. -Packed together to absorb as much light as possible
<u>Muscles</u>	Plant cell	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
Muscles are the organs that move body parts2. Bones protect the internal organs. Two Groups of Muscles:	Nucleus Cell membrane cell wall Mitochondrion vacuole	Guard cell	Allows gases in and out the leaf	-Able to change their shape -Found in pairs
Voluntary —You can control these. Arms, legs, hands, face Involuntary —You can't control these; you don't have to decide to make these muscles work. Muscles around the heart	Cell Part Function • Gives the cell structure	Sieve cell	Transport water, nutrients and minerals through the plant	-Hollow -Form long tubes
Antagonistic muscles occur in pairs. These pairs of muscles work together to create movement. As one muscle contracts (shortens) the other muscle relaxes (lengthens). They swap actions to reverse	Cell wall Contains mater & nutrients Vacuole • Contains water & nutrients Chloroplast • Absorbs light for photosynthesis	Cells	Tissues	Organ Organ System Organism
cartilage reduces friction, acts as a snock absorber Ligament joins bone to bone Tendon joins muscle to bone enabling movement Synovial membrane produces synovial fluid lubricates the joint	Humerus Ulna Radius Femur Patella Fibula Fibula	e. Eyepiece Ler c. Tube o. Objective	• Use sin • Draw o • Ensure • No sha • Draw I • Includ	Drawing rules nple clear lines only what you see (in proportion). e diagram is the right size. ading labelling lines using a ruler (NO crossing) e a scale or magnification Magnification = Eyepiece x Objective lens x Objective lens

Science

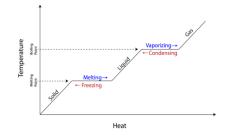


State	Particle arrangement	How the particles move	Properties
Solid		Particles are held in a fixed position and vibrate on the spot.	Solids cannot be squashed, do not flow, have a fixed shape and volume, and have a high density.
Liquid		Particles are free to move past each other but are still very close.	Liquids cannot be squashed, flow quite easily, and have a fixed volume but no fixed shape.
Gas		Particles are far apart and can move anywhere by themselves.	Gases are quite easy to squash, flow easily, have no fixed volume and no fixed shape.

Changing State

Substances must be heated to make them melt or boil and cooled to make them condense or freeze.

Heating makes particles move faster and weakens the forces of attraction between the particles. Cooling slows the particles down and strengthens the forces of attraction between the particles. Substances melt and boil at different temperatures called the melting point and boiling point. These are different for each substance.



Y7 Chem T1- Particles

<mark>Key words</mark>

Particle The tiny pieces that everything is made out of.

Pure a substance made up of only one type of particle.

Mixture a substance made up of two or more different types of particles that are not chemically joined.

Melting when a solid changes state to a liquid.

Freezing when a liquid changes state to a solid.

Condensing when a gas changes state to a liquid.

Boiling when a liquid changes state to a gas.

Sublimation a solid changing straight to a gas.

Melting point the temperature at which a solid turns into a liquid, this is the same as the temperature that a liquid turns in to a solid.

Boiling point the temperature at which a liquid turns into a gas, this is the same as the temperature that a gas turns in to a liquid.

Solutions

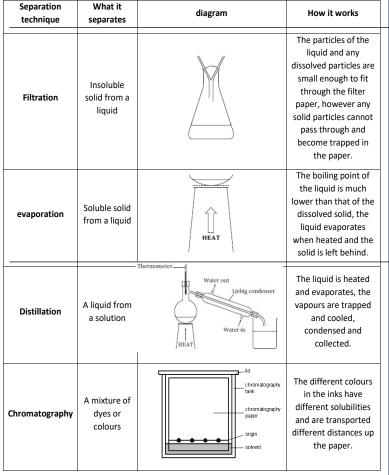
A **solution is** a liquid containing dissolved substances. The substance being dissolved is called the solute and the liquid in which it is being dissolved is the **solvent.**

Solute + solvent \rightarrow solution

A substance that will dissolve is **soluble**, one that will not is **insoluble**.

The amount of solute that will dissolve is effected by the type of solute, the type of solvent and the temperature.

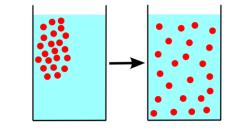
When no more of a substance will dissolve in a solvent the solution is **saturated**.



Science

Diffusion

Diffusion is the movement of particles from an area of high concentration to an area of low concentration. Diffusion occurs because particles in a substance are always **moving** around. Diffusion is fastest in **gases**, and slower in liquids. Diffusion in solids is extremely slow.



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)

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

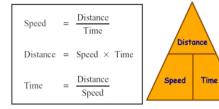
For example, if you push a book across a table, friction acts in the opposite direction to this motion.

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.

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)

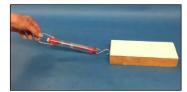
Y7 Phys T1- Forces

Forces can be categorised as contact or non-contact 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.

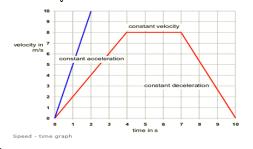
Friction can be investigated by dragging friction blocks across a table.



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.

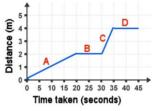
Changing the surface of the block and/or the table will also change the amount of friction generated.

Speed/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 yaxis 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

Mass and Weight are two different things.

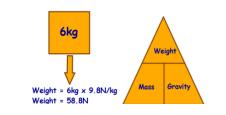
The mass of an object is its ability to resist change (inertia). Mass is measured in kilograms (kg)

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.



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