Year 7 Knowledge Organiser

Summer Term 2020/21

Name:

Form:



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Instructions for using your Knowledge Organiser

Every school day, you should study 1 to 2 subjects from your knowledge organiser for homework lasting at least 1 hour in total.

On pages 6 and 7 there is space for you to record the subjects you have studied to make sure you are giving equal time to all of them. Your parent should sign off your homework each evening on these pages.

Your parent should also sign your reading log on pages 8 and 9.

You can use the note pages in this booklet to help with your studies.

You need to bring your Knowledge Organiser to school every day. It will be checked regularly during form time.

You will be regularly tested on knowledge contained in this booklet in your lessons and through quizzes on Show My Homework.

How to self-test with your Knowledge Organiser

You can use your Knowledge Organiser in a number of different ways but you should not just copy from the organiser. Use the following tips and guidance to help you get the most out of learning and revising your subject knowledge.

These are some possible tasks you could try:

- Ask someone to write questions for you
- Write your own challenging questions, leave them overnight and try answering them the next day
- Create mind maps
- Create flash cards
- Put the key words into new sentences
- Look, write, cover and check
- Write a mnemonic

- Use the 'clock' template to divide the information into smaller sections
- Give yourself a spelling test
- Give yourself a definition test
- Draw images and annotate/label them with extra information
- Do further research on the topic
- Create fact files
- Create flowcharts
- Draw diagrams

The Knowledge Organisers are designed to help you learn a wide range of knowledge which will, in turn, mean you are more prepared for your lessons and make even better progress.

To get the most out of your Knowledge Organiser you should be learning sections and then self-testing.

Look, Cover, Write, Check, Correct

This should be familiar to you from primary school.

First	Next	Now	Finally
Look, then cover this colum	try to answer/give definition/spell	Check to see if you were right	Correct those you got wrong
Look	Write	Check	Correct
Noun	Person place or thing		
Belief	Something you believe	×	Accept true without proof

Questions/Answers, Answers/Questions

Ask a parent, carer, study partner to write you questions (or answers) and then you write the answer (or possible question that would respond to that answer). You can also write your own questions but if you do this leave it until the next day before you answer them to see what you can remember after a break.

Always remember to check and correct

Flashcards

These are a very good and simple self-testing tool.

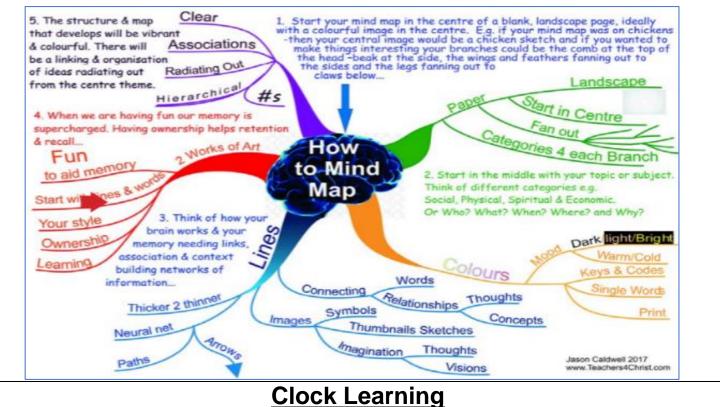
To make your own, take some card and cut into rectangles roughly 10cm x 6cm. Write the key word on one side and the definition on the other.

Then go through your cards looking at one side and seeing if you can remember the keyword/definition on the other side.

Mind Maps

Mind mapping is a process that involves a distinct combination of imagery, colour and visual-spatial arrangement. The technique maps out your thoughts using keywords that trigger associations in the brain to spark further ideas.

Once you have made your map, cover it and test yourself on different strands, e.g. how much of the 'Lines' strand can you recall.



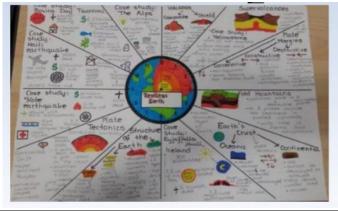
For this technique, draw a basic clock.

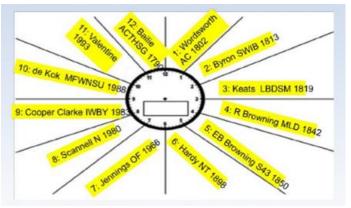
Take a subject or topic and break it down into 12 sub-categories.

Make notes in each segment of the clock. Revise each part for 5 minutes.

Now the clock over and try and write out as much information as you can from one of the segments.

Clocks can also be used to help to visualise a timeline





Homework log and parental check

Week 1	Subject 1	Subject 2	Signed
Monday			_
Tuesday			
Wednesday			
Thursday			
Friday			
Week 2	Subject 1	Subject 2	Signed
Monday			_
Tuesday			
Wednesday			
Thursday			
Friday			
Week 3	Subject 1	Subject 2	Signed
Monday		•	<u> </u>
Tuesday			
Wednesday			
Thursday			
Friday			
Week 4	Subject 1	Subject 2	Signed
Monday		-	-
Tuesday			
Wednesday			
Thursday			
Friday			
Week 5	Subject 1	Subject 2	Signed
Monday			-
Tuesday			
Wednesday			
Thursday			
Friday			
Week 6	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 7	Subject 1	Subject 2	Signed
Monday		-	-
Tuesday			
Wednesday			
Thursday			
Friday			

Homework log and parental check

Week 8	Subject 1	Subject 2	Signed
Monday		•	Ŭ
Tuesday			
Wednesday			
Thursday			
Friday			
Week 9	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 10	Subject 1	Subject 2	Signed
Monday			-
Tuesday			
Wednesday			
Thursday			
Friday			
Week 11	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 12	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 13	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 14	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			

Reading log

Use this reading log to record the books you read along with how long you have spent reading and the Accelerated Reader quizzes you have completed.

Week	No	Tue	Wed	Thu	Ë	Sat	Sun	Book(s) read (title and author)	T otal time spent reading	Parent/Guardian /Staff signature
7										
2										
m										
4										
ß										
9										
7										

Reading log

Use this reading log to record the books you read along with how long you have spent reading and the Accelerated Reader quizzes you have completed.

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Book(s) read (title and author)	T otal time spent reading	Parent/Guardian /Staff signature
8										
ი										
01										
11										
12										
13										
14										

Art – Installation:

	Art Specific Language and Terms	age and Terr	ns
Installation	Installation art is a type of three-dimensional work that is often site-specific and designed to transform the perception of a space.	Collaborative Art	Collaborative art is artwork that involves working as a team to create art, and each person contributes in some significant way to the artwork.
Sculpture	Sculpture is three-dimensional art made by one of four basic processes: carving, modelling, casting or constructing.	Contemporary Art	Contemporary art is the art of today, produced in the second half of the 20th century or in the 21st century.
Mix Media	Mixed media is a term used to describe artworks made from a combination of different media or materials.	Scale	Scale refers to the size of an object in relationship to another object.

Contemporary Installation Art:



Pascale Marthine Tayou *Plastic Bags* 2019



Rafael Gómezbarros Casa *Tomada* 2013



Cornelia Parker Cold Dark Matter: An Exploded View 1991



Jacob Hashimoto Swarm Theory 2013

Art – Installation:

	Art Specific Language and Terms	age and Tern	IS
Conceptual	Conceptual art is art for which the concept (idea) behind the work is more important than the finished art object.	Contextual	Contextual Information. Specific to artwork, context consists of all of the things about the artwork that might have influenced the artwork or the artist but which are not actually part of the artwork. Contextual information can deepen and improve our understanding of an artwork.
Contemporary Art	Contemporary art is the art of today, produced in the second half of the 20th century or in the 21st century.	Exhibition	An art exhibition is traditionally the space in which art objects meet an audience.

What is an Installation?

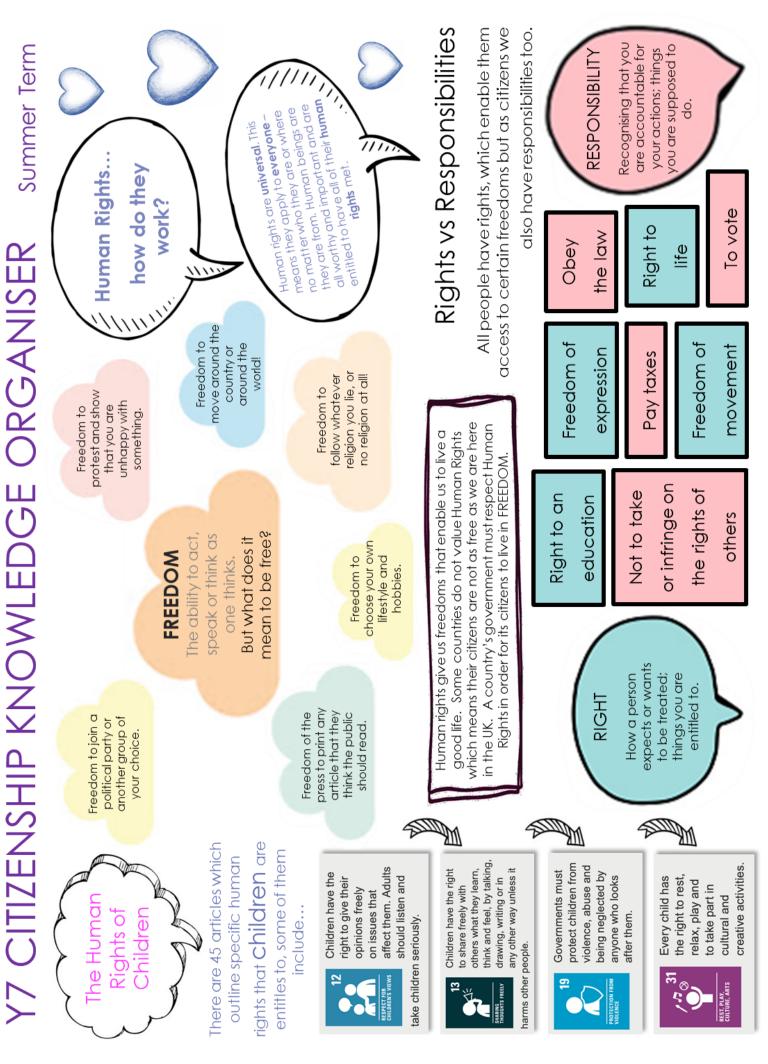
Installation artworks often occupy an entire room or gallery space that the spectator has to walk through in order to engage fully with the work of art. Some installations are designed simply to be walked around and contemplated, or are so fragile that they can only be viewed from a doorway, or one end of a room. What makes installation art different from sculpture or other traditional art forms is that it is a complete unified experience, rather than a display of separate, individual artworks. The focus on how the viewer experiences the work and the desire to provide an intense experience for them is a dominant theme in installation art. Allan Kaprow Yard 1961/2014

When did Installation Art begin?

Installation art began in the late 1950's when artists like Allan Kaprow started creating environments. From the 1960s the creation of installations had become a major strand in modern art. This was increasingly the case from the early 1990s when the 'crash' of the art market in the late 1980s led to a reawakening of interest in conceptual art. Miscellaneous materials (mixed media), light and sound have remained fundamental to installation art.



Summer Term	Discrimination Treating someone unfairly as a result of prejudice.	Human rights The basic rights and freedoms that belong to every person in the world, from birth until death.	Civil Liberties These are like human rights but provide additional protection from the government. For example, Freedom of Speech.	Racism Racism is the belief that people of a certain race are inferior. It can be both prejudice (feelings) and discrimination (actions).	Gender Equality Making sure that all people, of all genders are treated	equally and are given equal opportunities in life. For example in politics or education.	Prejudice Negative thoughts and feelings towards a person because of their age, gender, race or reliaion which are not	based on real experience.	Children's Rights Human Rights which have been created especially to protect and support children all around the world.
Y7 CITIZENSHIP KNOWLEDGE ORGANISER	Why do we have Human Rights? The night The Universal Declaration of Human Rights is to life.	a document which states a list of rules and rights which every person is entitled to. It was written by people from all around the world, a group of people known as the UN (United Nations) in 1948.		Malcolm X – civil rights campaigner who fought for equality between black and white people.	sphen Lawrence	Stephen Lawrence was only 18 years old when he was stabbed and killed in a racist attack whilst waiting for a bus with his friend. There was a lot of controversy surrounding Stephen's death; firstly due to the incompetent way the police dealt with the crime and secondly because the people who committed the crime were not convinced until 2012, this	was reprine supprier was protany more than Stephen's friends and family never gave up and campaigned tirelessly for years to get justice for Stephen and other victims of racist attacks. Stephen's mother, Baroness Doreen Lawrence went on to campaign for equality for black people and for other victims of racist crime; she was even made a member of the House of Lords for all of her hard work and contributions to equality and racism in the UK.	Did you know?	that sal
Y7 CITIZENSHIP KN	Human Rights and The right to free	Me: speech. The right to a fair	against racism trial. Racism is still an issue in modern society but throughout history there have been some key people who have made a huge impact on improving the issue.	ctivist who gated bus in	RACISM CASE STUDY The Murder of Stephen Lawrence	Stephen Lawrence was only 18 years old when he was his friend. There was a lot of controversy surrounding St dealt with the crime and secondly because the people	was 17 years direct stephent was brought intracted. Stephen's friends and family never gave up and campo victims of racist attacks. Stephen's mother, Baroness Do people and for other victims of racist crime; she was ev and contributions to equality and racism in the UK.	:	Making connections How can you link different topics together? Human Rights + democracy Children + education + rights Community + equality + active citizen



Computir	Computing – Spreadsheet Key Knowledge		Computing – Scratch Key Knowledge
Key Vocabulary	lary	Key Vocabulary	٨
Cell Reference	The name of an individual cell (The coordinates to a cell)	Sprite	This is an object in Scratch. Scratch the cat is a sprite. Sprites can have
Row	A range of cells that go across (horizontal) the spreadsheet. Rows have a number.		commands
Column	A vertical range of cells. Columns have a letter.	Hide	Makes the sprite disappear.
Cell	A rectangular box that can contain any value	Show	Makes the sprite appear.
Sheet	A single page in a spreadsheet document	Stage	The area that can be seen when scratch is ran.
Workbook	A collection of sheets	Backdrop	Background displayed on your Scratch stage.
Formula	A mathematical operation performed on values in the spreadsheet	Costume	A different appearance of a sprite.
Tab	The button that changes which sheet you are looking at	Cartesian Coordinates	Use to pinpoint a location using x and y values (see below)
Formatting	The appearance of the cell (Colour, font size, type and colour. Borders	X axis	Horizontal axis. From left to right. 0 is in the middle.
Conditional Formatting	This changes the format of a cell based on what condition you enter.	Y axis	Vertical axis. From top to bottom. 0 is in the middle.
If Statement	A function that sees if a condition is met. If it is met a true value is returned if not a false.	Algorithm	A step by step series of instructions to solve a problem
Cell Replication	Copying of data in a cell to another cell	Repeat	A repetition of an instruction a set number of times
Validation	Where the computer checks your data entry to see if it is allowed.	Forever	This creates a loop (iteration) that repeats a command over and over again.
Absolute Cell Reference	Makes the cell static (Will not change when copying a formula)	lf	This is a decision in programming. Performs one thing if a criteria is met.
Colon :	Defines a range of cells. Colon in effect means to e.g. A2:D5	Elif	This is an extra choice when using an If Statement (Else If)
Static Cell	A cells value that has to be changed manually	Else	As in Elif. This performs a different task based on the if statement.
Dynamic Cell	A cell value changes automatically based on contents from another cell.	Broadcast	Sends a message to Scratch to say that something has happened.
		Receive	Performs a task when a 'Broadcast' is received.
=>um	Adds the values of a cell range	Onerators	Mathamatical alaments such as ± - * / maaning nlus suchtract multinly
=Average	Finds the average value of a range		mathematical elements such as 7, 7, 7, meaning prus, subtract, mathpy and divide.
=Max	Finds the maximum value in a range	Conditional Operators	Mathematical elements such as =, <, > meaning equal to, less than, greater
=Min	Finds the minimum value in a range		than.
=IF	Used to create an IF statement	Variable	A stored value that can change (for example score)
		Debug	The process of identifying and removing errors in your code.

Computing – Introduction to text based programming keywords

	keywords
Input	Any information or data sent to a computer for processing eg entering data by a keyboard
Output	Data generated by a computer such as the result of a calculation
Variable	A value that can change during the running of a program
Constant	A value that does not change during the running of a program
Sequence	Instructions are executed one after the other
Iteration	Instructions are repeated a specified number of times or until a condition is met
Syntax error	Mistakes in the way the code is written e.g. misspelling a command word such as print
Logic error	Program works but produces an unintended result e.g. multiplying instead of dividing
Debugging	The process of finding and resolving defects or problems within a computer program that prevent correct operation.
Selection	A decision where choices need to be made usually using IF statements
Program	A set of ordered instructions to solve a problem
Condition controlled loop	Code that is repeated until a condition is met
Operator	A symbol that usually represents an action or process eg != meaning not equal to
Comment	A text note to explain the code.
Module	Code that other people have written to save you having to write it yourself e.g. turtle
Procedure	A set of instructions stored under a name so they can be easily reused
IDE	Integrated development environment used to write code, test for errors and translate a program
Count controlled loop	Code that is repeated a set number of times



3-1938 acting.	Naturalism Vs Realism	Naturalism - refers to theatre that tries to create a perfect illusion of reality by use of a range of dramatic and theatrical stratacies	Realism - Realism in the theatre was a general movement that began in 19th-century theatre.	around the 1870s, and remained present through much of the 20th century. It developed a set of dramatic and theatrical conventions with the aim of bringing a greater fidelity of real life to texts and performances. Both are a style of theatre that aims to	mimic real life. Characters, stories, costumes and set designs should all	appear as in the audience is watching real life, not a performance. This is what Stanislavski was aiming for in his theatre.	 4th Wall Given Naturalism 	Magic If Realism The System Imagination	
Stanislavski 1863-1938 practitioner famous for creating a system of acting.	Stanislavski's 8 Questions	1. Who am I? Think about what your character is like in	terms of personality. 2. What are my given circumstances? Think about your recent past and how	 this has affected you and brought you to where you are. 3. What are my relationships? Think about your relationship with other characters, events and things that surround you. 4. What is my objective? Why? 	I his is what you want, your motivation or reason for action. 5 What must I overcome?	This is the problem that is stopping you from getting your objective; what you need to overcome to reach your goal. 6. What is my action?	This is what you do to overcome your obstacle and attempt to reach your goal. 7. What is my super objective? This is your main or overall goal	throughout the whole play. 8. What is my through line of action?	I nese are the links in all of your objectives that drive it to the super objective.
Drama-Constantin Stanislavski was a Russian theatre practi	Key Concepts	It is an imaginary wall at the front of the stage separating the audience from the actors which allowed for Stanislavski's method called the suspension of disbelief to take place.	The magic word of 'IF' opens up many possibilities for the actor to 'create a whole new life' of stimulating emotions. What would I do if happens?	The given circumstances are the information about the character that you start off with and the play as a whole. How old is the character? What's their situation in the play and in relation to the other characters? Are there any notes provided about the play and its characters? Such notes and stage directions may not tell you everything you need to build a character but they are the starting point.	An actor's store room. Remembering feelings and emotions that they have had and felt, strengthens their characterisations.	Emphasising the incorrect word in a sentence changes the context and meaning of the whole story. Being clear of what to accentuate is vital, so that the correct meaning and atmosphere is communicated.	"when you begin to study each role you should first gather all the materials that have a bearing on it, and supplement them with more and more imagination" You must use your imagination to discover your character.	This is a state of mind that can't be learntThe actor MUST believe in what they are doing for the audience to believe.	There is an inner and an outer tempo and rhythm. He linked tempo to the speed of an action or feeling and the rhythm to the intensity or depth of the experience.
D		4 th Wall	Magic If	Given Circumstances	Emotional Memory	Accentuation	Imagination	Feeling of truth	Tempo and Rhythm



Drama- Kneehigh 1980's - Present



marquees, cliff-tops, woods. They are a storytelling company and they like to tell Folk & Fairy tales. Their performances are interactive and they require an audience response. Kneehigh are from Cornwall, England. Their founder and creator is Mike Shepherd. They are a touring company that performs in different locations, such as clay pits, They always work as an ensemble.

Kneehigh - Hansel & Gretel

- First performed in 2009
- Adapted (from the original Grimm tale) by Carl Grose
 - Use of talking puppet animals
- Supernature Chorus (Supernature means beyond the rules of nature e.g. magic, transformations or unusual happenings)

The Key Themes of the Performance are

- Family
- Famine
- Fear & Survival
- Abandoned Children
 - Witches
- Follow the link for the trailer

https://www.youtube.com/watch?v=TyHKir0CfeE

Key Features of a Kneehigh performance...

- Physical Theatre- actors use their bodies in
 - nventive ways to make objects
 - Live Music
 - Songs
- **Ensemble work**
 - Puppetry
- Mask
- Improvisation Clowning
- Grotesque & Comedy elements Costume
- Animation Stunts

Dance

- 'Clocking' the audience
 - Direct address

 - Chorus work
- Audience interaction
- Theatre in the round (sometimes)
- Pre show activities (as audience arrive)
 - Exaggerated characters
 - Gender swapping

Further Reading www.kneehighcookbook.co.uk

Vocabulary	Definition
Body As Prop	Using your body in performance to make props. Actors should be able to use these in their performance.
Columbian Hypnosis	Involves students working in pairs to lead one another through a space as one participant follows another participant's hand. This activity requires trust, awareness, and non-verbal communication as students work together to move safely through the space.
Choral Speech	All speaking as one.
Narration	Narration is recounting of events and actions that have happened or are currently happening on the stage, it is done by one of the actors in the performance as the narrator.
Direct Address	Directly speaking to and involving the audience.

Studying English is about thinking, noticing, exploring, creating...

Genre & Theme

Genre refers to the category a text belongs to. For example, *The Giver* is a **dystopian** story.

Texts can belong to **more than one** category. For example, *The Graveyard Book* is a fantasy story with gothic elements. As it is also about growing up, it might even be referred to as something of a bildungsroman.

The Giver is considered a dystopian story for lots of reasons. Here are some of the most important:

- It explores a failed attempt to create a utopia (dystopias are failed utopias) – the original founders wanted to make a perfect world but instead created a very strict society where nobody is truly free
- 2. It explores a common concern associated with the genre the idea of the state controlling ordinary life in a way that is very oppressive In Jonas's community, every aspect of life is monitored and controlled. No dissent is allowed and punishments are very severe a pilot is executed for taking a wrong turn!
- 3. Leaders take surveillance of the population very seriously and there is an underlying culture of fear and mistrust. – the public announcement system reminds people of the rules and the importance of obeying
- It features a search for truth and for freedom Jonas wants to know the real history of his society
- 5. It features a 'hero' protagonist who moves from a position of naivety to a position of understanding – initially, Jonas is as unaware as everyone else about the history of the culture and that leaders are not necessarily really on the side of the people
- It pits an individual against the state eventually Jonas escapes and there is a sense that things might change because of his actions

Exploring genres:

The text is a good example of the x genre because... The text has x [e.g. dystopian] elements in that it has...

subject matter = what they're writing about (E.G. war or love or death.)

A **theme** is an important idea within a text. It tells us something about the writer's attitude towards their subject matter.

An important theme in *The Giver* is the idea that **culture influences us**. Jonas has grown up in a society that has discouraged everyone from questioning or challenging authority. He sees this as normal because he has never known anything else.

This is true for all of us. We all think our culture is 'normal' and everyone else's is 'different'. We can struggle to overcome the cultural lens through which we understand the world.

Themes helps us ask questions about ourselves, our cultures and our experiences. For example, the Giver might help us explore how we understand identity and belonging:



Is identity more about how we see ourselves or about who we really are? Are they different things? How does Jonas's identity change throughout the story?



If belonging is about connection – what is in the middle, holding everything together? Laws? Culture? A national symbol, like a flag? What holds Jonas's community together?



Societies have rules – a constitution, laws etc. Who gets to make them? Who makes the rules in Jonas's community and is it fair?

Exploring themes:

The writer uses a to explore ideas about ... The writer's language choices reflect the theme of ... The writer explores x by characterising y as someone who...

Food - Topic 1: Getting Ready to Cook

Personal hygiene – before starting to cook, you need to get yourself ready:

- 1. Taking off outdoor clothing (coats, blazers, jumpers and ties) and putting on a clean apron
- 2. Tying up long hair
- 3. Cleaning hands with hot soapy water

Good personal hygiene will stop you cross-contaminating food with the harmful bacteria that causes food poisoning. When preparing food you should not be eating your ingredients or licking your fingers.

Ingredients – you need to weigh and measure all the foods you need for a recipe before coming to school.

Equipment – all the equipment you need to prepare and cook food can be found in the kitchen cupboards and drawers in school.

Knife safety – when using a knife to prepare food you need to follow these important rules:

- 1. Collect the knife by holding the handle and pointing the blade downwards
- 2. Choose the correct chopping board
- 3. Use bridge and claw to keep your fingers away from the sharp blade
- 4. Avoid putting your finger on the top of the blade
- 5. Wash the knife up first (don't leave in the bottom of the sink)

Cooker safety – you will be using all parts of the cooker (hob, grill and oven). Follow these important rules:

- 1. Always use oven gloves for the grill and oven
- Bend your knees to see if your food is cooked don't get on your knees
- 3. Adjust the temperature of the hob if food is cooking too quickly or is about to boil over
- 4. Point handles of saucepans to the side so you don't knock them

Heat transfer – food is cooked by transferring heat by conduction (heat from the hob warms up the saucepan and the food inside it), convection (e.g. heat in the oven warms up the air which circulates around the food to cook it) or radiation (heat from the grill radiates downwards to cook food).







Food - Topic 2: Healthy Eating

We need food for growth and repair of cells, energy, warmth, protection from illnesses and keep our bodies working properly.

Food is made of 5 nutrients. Each nutrient does a different job in the body. Eating a balanced diet means we get all the nutrients we need for a long and healthy life.

The amount of energy we need depends upon our age, gender, activity level and body size. If we eat more food than we need, and don't use it up by exercising, any energy that's left is turned into fat and we put on weight. If we eat less food than we need, the fat stores are used up and we may end up losing weight.

The Eatwell Guide shows how eating different foods can make a healthy and balanced diet. It divides up different food groups and shows how much of each group is needed. Extra information about the amount of water we need and the labels on food packaging is also provided.



There are also eight guidelines for a healthy lifestyle. They are:

- 1. Eating at least 5 portions of fruit and vegetables every day
- 2. Eating higher fibre starchy foods like potatoes, bread, rice or pasta
- 3. Eating less food high in fats and sugar
- 4. Eating less salt
- 5. Eating more fish including one portion of oily fish
- 6. Drinking plenty of fluids (at least 6 to 8 glasses a day)
- 7. Being more active
- 8. Eating breakfast every day

8 healthy eating tips



Topic 3: Fruit

Fruits are an important part of a balanced diet and should make up two portions of your 5-a-day.

Fruits contain a variety of micronutrients, for example Vitamins C and A, and they are also a good source of fibre.

There are different types of fruit:

- 1. Soft fruits e.g. raspberries and strawberries
- 2. Citrus fruits e.g. lemons and limes
- 3. Stone fruits e.g. plums and apricots
- 4. Tree fruits e.g. apples and pears
- 5. Exotic fruits e.g. bananas and kiwis
- 6. Dried fruits e.g. currants and sultanas

Reserved to the second se

Fruits can be eaten fresh, frozen, canned or dried. They can be preserved in jams or puréed to make a sauce.

Some fruits are grown in the UK and some are imported from other countries. If imported they can travel thousands of miles to get to the shops. The distance travelled between where food is grown and your table is called a 'food mile'. Pollution from food miles can harm the environment.

Most fruits grown in the UK have a growing season - a time of the year when the growing conditions are best. Choosing seasonal foods has many advantages:

- 1. They have more nutrients as they are fresher
- 2. They are cheaper because they are plentiful
- 3. If grown locally you can support local farmers
- 4. The food miles will be lower so it's less harmful to the environment

There are some disadvantages too. Only eating seasonal or local foods means that your favourite foods might not be available all year round. Your diet could also lack variety.

Some fruits, for example apples, will spoil if you cut them and their cells are exposed to oxygen in the air. This is called enzymic browning and it can be prevented by covering the fruit with fruit juice or syrup.



Topic 4: Vegetables

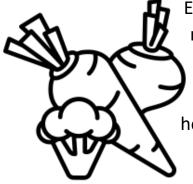
Vegetables are an important part of a balanced diet and should make up three portions of your 5-a-day.

Vegetables contain a variety of micronutrients, for example Vitamins C and B, and they are also a good source of fibre.

There are different types of vegetables:

- 1. Fruit vegetables e.g. tomatoes and cucumbers
- 2. Seeds and pods e.g. peas and beans
- 3. Flower vegetables e.g. broccoli and cauliflower
- 4. Leafy vegetables e.g. spinach and cabbage
- 5. Stem vegetables e.g. asparagus and celery
- 6. Tubers e.g. potatoes and sweet potatoes
- 7. Fungi e.g. different types of mushrooms
- 8. Bulbs e.g. onions and garlic
- 9. Roots e.g. carrots and beetroot

Vegetables can be eaten fresh, frozen, dried, canned and juiced.



Eating a rainbow of colours provides different vitamins and minerals and can make a meal look more appetising.

Modern growing techniques and the use of technology mean that vegetables can be grown, harvested and packaged within hours so they are very fresh.

Many supermarkets now sell 'wonky' vegetables. These are different shapes and sizes or the wrong colour but they are still

tasty and nutritious. Wonky vegetables are often cheaper to buy and stop good food from going to waste.

Children in the UK are not eating enough vegetables. Advertising campaigns to promote vegetables to children and their parents are trying to tackle the problem.





Topic 5: Starchy Carbohydrates

Carbohydrate is made by green plants is one of the five nutrients essential for life. There are 3 types of carbohydrate:

- Sugar simple carbohydrates that can be broken down by the body quickly and turned into glucose for energy
- Starch complex carbohydrates that are made up of different sugar molecules linked together. The body takes longer to break them down into glucose giving us slow release energy
- 3. **Fibre** another complex carbohydrate found in the cell walls of plants. The body can't break fibre down but it is important to help with removing waste from the body

Many starchy foods are grown in the UK. Potatoes are a tuber which grow from the roots of a potato plant. Because they contain so much starch, they are included in the starchy foods section of the Eatwell Guide even though they are a vegetable.

Cereals like wheat are grown, harvested and the seeds milled to produce flour. Flour is used to make baked goods like bread, cakes and scones and also pasta. Oats grow in cool, wet climates and can be milled to make rolled oats and oatmeal. Oats are used to make porridge and flapjacks.

Healthy eating advice suggests that meals should be based on starchy carbohydrates such as breakfast cereals, bread, pasta, potatoes or rice. Wholemeal varieties of these foods are also a good source of fibre and keep you feeling fuller for longer.

Starchy food is often served as an accompaniment for meat, chicken fish or vegetable dishes. Starches, such as cornflour, can also be used to thicken sauces through a processes called gelatinisation.

When starch comes into contact with dry heat it is broken down into a sugar which turns the food brown and gives a nutty flavour and aroma, for example when bread is toasted. This is called dextrinization.

Many starchy foods are baked and use raising agents to give them a light and spongy texture. Raising agents can be chemical (baking powder), mechanical (whisking), physical (water turning to steam) or biological (yeast). Chemical and biological agents work by producing carbon dioxide gas to aerate a mixture.





25

Topic 6: Simple Carbohydrates (Sugar)

Sugar and syrup are both types of carbohydrate but you will not find them on the Eatwell Guide because, although we like sugary foods, we do not NEED them in order to be healthy.

Sugar is found naturally in fruits and vegetables and fruit juices. Honey is also a natural sugar made by bees. In

addition, there are many types of processed sugars made from sugar beet and sugar cane. They are often called 'free sugars' and examples include granulated and icing sugar and treacle and golden syrup.

These processed sugars are added to many processed foods such as breakfast cereals, biscuits, jams, chocolate and fizzy drinks. It is sometimes difficult to judge how much sugar these foods contain. Sugar is also hidden in some sayoury foods such as salad dressings, bread, ketchup and soups. These 'hidden sugars' mean that people eat more sugar than they realise.

You need to look carefully at food labels to identify hidden sugars. They are sometimes called other names like dextrose, glucose, syrup or molasses. Sugars are also listed on the traffic light labelling on packaging. If food is high in sugar it will show up red on the traffic light. Recommended daily

intake of sugar is a maximum of 24g or 6 teaspoons for children.

A diet high in free sugars can lead to tooth decay and obesity in children. It is also linked to Type 2 diabetes and some cancers in adults.

People enjoy high sugar foods because they have sensory appeal – it improves the appearance, taste, aroma and texture of food. Sensory evaluation is when you judge food on its sensory appeal. Sensory evaluation is helpful when food manufacturers are launching a new product or improving a recipe. It's important to use sensory words that are objective when you are taste testing e.g., chewy, sweet, sticky or golden brown.

One reason why sugars improve the colour and flavour of baked foods, such as flapjacks, is because they caramelise when heated. The heat causes water to evaporate which produces a darker, sticky liquid. The longer it is heated, the darker the caramel becomes.







Y7 French Knowledge Organiser - Summer Term 1

Rooms in a house

		(quatre) pièces nere are (four) rooms there is no space
il n'y a p	oas de (jardin)	there is no (garden)
ll y a		the office the hallway the kitchen the bedroom the bathroom r the dining room
Activities at home		

Chez moi...

At home ...

. .. .

je range ma chambre	I tidy my room
j'écoute de la musique	l listen to music
je fais mes devoirs	I do my homework
je joue à l'ordinateur	play on the computer
je joue aux jeux vidéo I	play computer games
je lis	l read
je fais de la cuisine	l do cooking
je mets la table	l set the table
je lave la voiture	I wash the car
je travaille dans le jardir	
je sors les poubelles	I take out the rubbish
je fais mon lit	l make my bed

Describing your bedroom

dans ma chambre il y a... In my bedroom there is/ are...

il n'y a pas de (chaise) there is no (chair)

un lit	a bed
un ordinateur	a computer
un bureau	a desk
un nounours	a teddy bear
un réveil	an alarm clock
une armoire	a wardrobe
une chaise	a chair
une commode	a chest of drawers
une chaîne hifi	a stereo
des étagères	some shelves
des posters	some posters
des photos	some photos

	W	her	e y	ou	live
--	---	-----	-----	----	------

Où habites-tu? Where do you live?	
j'habite dans I live in un appartement a flat un château a castle une maison a house une maison de plain-pied a bungale une chaumière a cottage une ferme a farm	сw
au bord de la mer at the seasion à la campagne in the countrys à la montagne in the mountain en ville in town dans un village in a village	ide
qui s'appelle called près de near to à (Hunstanton) in (place nar	ne)
j'aime habiter ici I like living h	ere
je n'aime pas habiter ici I don't like living h	iere
	Γ.
<u>Places in town</u>	<u>v</u>
Qu'est-ce qu'il y a dans? What is there in?	0
ta ville/ ton village your town/ village	je
il y a there is/ there	
<i>are…</i> un centre de loisirs <i>a leisure</i>	
centre	
un centre commercial	
a shopping centre	
un château a castle	le

Qu'est-ce qu'il y	a dans? What is there in?
ta ville/ ton villag	
town/ village	
il y a	there is/ there
are	
un centre de lois	irs <i>a leisure</i>
centre	
un centre comme	ercial
	a shopping centre
un château	a castle
un marché	a market
un musée	a <i>museum</i>
une mosquée	a mosque
une gare	a train station
une poste	a post office
une banque	a bank
une patinoire	an ice rink
une piscine	a swimming pool
des magasins	(some) shops

to go

ALLER

je vais tu vas il va elle va nous allons vous allez ils vont elles vont

I am going/ I go you are going he is going she is going we are going you are going (plural) they are going they are going

Countries

j'habite... I live...

au pays de Gall	es in Wales
au Portugal	in Portugal
en Angleterre	in England
en Écosse	in Scotland
en Irelande	in Ireland
en Grèce	in Greece
en Pologne	in Poland
en Suisse	in Switzerland
en Allemagne	in Germany
en Espagne	in Spain
en Italie	in Italy
aux Etats-Unis	in America

Adjectives

'est…	iťs…
tranquille	peaceful
bruyant	noisy
confortable	comfortable
grand	big
petit	small

Weekend activities

Où vas-tu le weekend? Where do you go at the weekend? je vais... I go... au bowling to the bowling alley au cinema/ parc to the cinema/ park au stade to the stadium à la piscine to the swimming pool à la plage to the beach to the church à l'église aux magasins to the shops

le samedi matin/ après- midi/ soir on Saturday morning/ afternoon/ evening

avec ma famille/ mes amis with my family/ my friends

HABITER

to live

j'habite tu habites il habite elle habite vous habitez ils habitent elles habitant

I am living/ I live you are living he is living/ he lives she is living/she lives nous habitons we are living/ we live you are living (plural) they are living they are living

j'habite dans une maison en ville I live in a house in town

Y7 French Knowledge Organiser- Summer Term 2

<u>Breakfast</u>

Broundot		
je mange…	l eat	
du pain		bread
du pain grillé		toast
du beurre		butter
du miel		honey
du Nutella		Nutella
du muesli		granola
de la confiture		jam
des céréales		cereal
des viennoiseries		pastries
des gaufres		waffles
des crêpes		pancakes
des beignets		doughnuts
des fruits		fruit
je bois…	l drink	
du thé		tea
du café		coffee
du thé vert		green tea
du chocolat chau	d	hot chocolate
de l'eau/ de l'eau	du robine	et water/ tap water
du jus d'orange		orange juice
du lait		milk

<u>Going out</u>

Tu veux aller au o	café?
	Do you want to go to the café?
Tu veux venir?	Do you want to come?
aujourd'hui	today
ce matin	this morning
cet après-midi	this afternoon
ce soir/ weekend	this evening/ weekend
Rendez-vous à q	uelle heure?
	What time will we meet?
rendez-vous à	Let's meet at
Merci. Bonne idé	e! Thank you. Good idea!
Oui, je veux bien.	Yes, I want to.
D'accord	ОК
Pourquoi pas?	Why not?
Non, merci.	No, thanks.
Désolé(e)!	Sorry!
Je ne veux pas.	I don't want to.
Tu rigoles!	You're joking!

<u>BOIRE</u>

je bois tu bois il boit elle boit nous buvons vous buvez ils boivent elles boivent

ALLER

je vais tu vas il va elle va nous allons vous allez ils vont elles vont

to drink

I am drinking/ I drink you are drinking he is drinking / he drinks she is drinking /she drinks we are drinking / we live you are drinking (plural) they are drinking they are drinking

to go

I go/ I am going you go/ you are going he goes/ he is going she goes/ she is going we go/ we are going you go/ you are going (plural) they go/ they are going they go/ they are going

Visiting Paris

Qu'est-ce que tu vas faire à Paris? What are you going to do in Paris?

Je vais... I am going...

visiter la cathédrale Notre Dame to visit Notre Dame Cathedral visiter la tour Eiffel to visit the Eiffel Tower aller au musée du Louvre to go to the Louvre aller aux Catacombes to go to the Catacombs faire une balade en bateau-mouche to go on a boat trip prendre des photos to take photos acheter des souvenirs to buy souvenirs admirer la Joconde to admire the Mona Lisa faire un pique-nique to go on a picnic

<u>Time frames</u>

aujourd'hui	today
ce matin	this morning
cet après-midi	this afternoon
ce soir	this evening
ce weekend	this weekend
normalement/	d'habitude
	normally/ usually
le lundi matin	on Monday mornings
le mardi après-	-midi
•	on Tuesday afternoons
le samedi soir	on Saturday nights
le weekend	at weekends
le weekend pro	chain next weekend
	hain next Sunday
	,

MANGER

je mange	I am eating/ I eat
tu manges	you are eating
il mange	he is eating
elle mange	she is eating
nous mangeons	we are eating
vous mangez	you are eating (plural)
ils mangent	they are eating
elles mangent	they are eating

wonf

to eat

VOULUIR	to want
je veux	l want
tu veux	you want
il veut	he wants
elle veut	she wants
nous voulons	we want
vous voulez	you want
ils veulent	they want
elles veulent	they want
	-

In a café

Vous désirez? What would you like? Pardon, madame/ monsieur Excuse me madam/ sir Je voudrais... I would like... Pour moi... For me... un Orangina a fizzy orange un diabolo menthe a mint cordial une grenadine à l'eau a pomegranate cordial un café express an expresso coffee un café crème a milky coffee un chocolat chaud a hot chocolate un thé au lait/ au citron a tea with milk/ lemon un jus d'orange an orange juice un coca (light) a (Diet) Coke une eau minérale a mineral water un croquemonsieur a grilled cheese and ham sandwich un sandwich au fromage/ au jambon a cheese/ ham sandwich une crêpe au sucre a pancake with sugar une glace au chocolat/ à la vanilla/ à la fraise/ à la pistache chocolate/ vanilla/ strawberry/ pistachio ice cream des frites chips Et pour vous? And for you? C'est combien, s'il vous plait? How much is it, please? Ca fait... It comes to ... Voilà, merci. Here you are, thanks.

Picture description

Qu'est-ce qu'il y a sur la photo? *What is on the picture?* Sur la photo, il y a... *On the photo, there is...* au fond/ au centre *at the back/ in the middle* à gauche/ à droite *on the left/ on the right*

Near Future Tense

Aller + INFINI	<u>TIVE</u> = Future Tense
je vais <u>boire</u>	l am going <u>to drink</u>
tu vas manger	you are going <u>to eat</u>
il va <u>regarder</u>	he is going to watch
elle va <u>chanter</u>	she is going to sing
nous allons <u>écou</u>	<u>ter</u> we are going <u>to listen</u>
vous allez jouer	you are going <u>to play</u>
ils vont visiter	they are going to visit
elles vont <u>faire</u>	<i>they are going <u>to do</u></i>

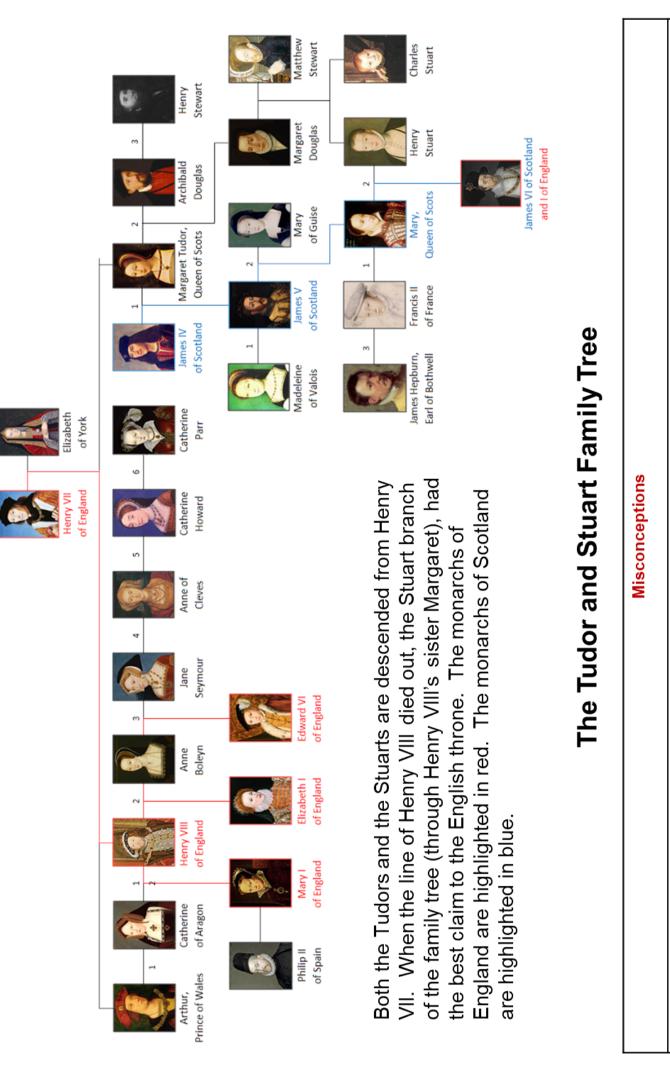
Year 7 Geography - Asia		sia is the larges opulation of ove	<u>Asia is the largest continent in the world. It has a</u> population of over 4.3 billion in 49 countries, the largest
	ot	f which are Rus	of which are Russia, China and India
GEORGIA ARMENIA KAZAKHSTAN KOSIA GEORGIA ARMENIA KAZAKHSTAN KORGYZSTAN TURKEY LURKMENISTAN KYRGYZSTAN CF EBANON SYRIA FEBANON SYRIA SRAEL IRAQ IRAN AFGHANISTAN CF SRAEL IRAQ IRAN AFGHANISTAN NEPAL BHUTAN JORDAN AFRICA ARABIA ANADIAN SGA BANGLADESH MYANIMAR MALDIVES SRI LANKA SRI LANKA SRI LANKA	MGOLA INA INA INA INA INA INA INA INA INA IN	Asia's Physi Asia 's <u>biomes</u> (a large con found in a major habitat) in steppe and semi-desert, cc <u>The Monsoon (</u> The <u>monsoon</u> period of het between June and Septem heating up quickly causing rain-baring winds from the gap caused by the rising ai brings the rain required for supporting India's 1.3 billio people are employed in <u>aq</u> too much rain can destroy the Bangladesh suffered <u>floodin</u> the Brahmaputra rivers are (crossing country borders) <u>physical causes</u> of flooding heavy rain, silting up of the a flood plain – much of whi above sea level and cyclon through <u>deforestation</u> – red	Asia's Physical GeographyAsia's Physical GeographyAsia 's biomes (a large community of plants and animalsfound in a major habitat) include Tropical rainforest,steppe and semi-desert, coniferous forest and tundra.The monsoon Climate in SE AsiaThe monsoon period of heavy rainfall occurs in Indiabetween June and September. It is caused by landheating up quickly causing air to rise, as a result moistrain-baring winds from the surrounding oceans fill thegap caused by the rising air. Heavy rainfall results. Itbrings the rain required for the rice harvest to growsupporting India's 1.3 billion people. 50% of Indianpeople are employed in agriculture (farming). However,too much rain can destroy the crops.The Brahmaputra rivers are <u>transboundanty</u> rivers(crossing country borders) meet in Bangladesh. Otherphysical causes of flooding in 2017. The Ganges andthe Brahmaputra rivers are <u>transboundary</u> rivers(crossing country borders) meet in Bangladesh. Otherphysical causes of flooding in 2017. The Ganges andthe Brahmaputra rivers are <u>transboundary</u> rivers(crossing country borders) meet in Bangladesh sits ona flood plain - much of which is less than one metreabove sea level and cyclones. <u>Humans</u> add to flood riskthrough <u>deforestation</u> - reducing interception, increasing
0 1000 km Ocean		Command word: state, describe, o	<u>Command words</u> that you will use in this topic: Identify, state, describe, compare, explain and assess
<u>The population of Afghanistan</u> Rapid population growth of 2.34% in 2016 as <u>birth</u> <u>rates</u> exceed <u>death rates</u> . Birth rates are high as there is a need for children to look after parents in old age and a need to have children to help and work. It is a Strict Muslim society where people do not believe in contraception. Its 2016 <u>population</u> <u>pyramid</u> shows 42% of people below the age of 15 and 2.34% of people over the age of 65.	<u>The Population of Japan</u> Japan's population of 126 million is forecast to fall by 1/3 in the next 50 years as people are not having as many children in a country with an <u>ageing population</u> . Its 2016 population pyramid shows 13% of people below the age of 15 and 26% over the age of 65. Japan is overcoming worker shortages using robots and increasing the number of overseas workers.	ast to fall by having as population. of people e of 65. ing robots orkers.	<u>The Growth of the Chinese Economy</u> China has experienced <u>economic</u> <u>growth</u> of 10% per year since 1979. Reasons for this include a large labour supply, large percentage of female workers, investment in <u>infrastructure</u> , low wages, energy supply, natural resources, location and political system and strong leadership.

nate	The weather is made up of a number of components: pressure, temperature, wind, drought, precipitation, humidity and sunlight. Each of these components are what make up the daily weather condition experienced in an area. Weather is experienced at different scales, locally, regionally, nationally and globally. There are a number of factors which affect our weather at a local scale, these are: Distance from the sea., Altitude, Latitude. Prevailing winds	At a global scale the weather is affected by global air pressure bands and the amount of solar insulation and area receives.	d words	give a detailed account of the features of something without interpreting the information.	give reasons for	name or otherwise characterise	express in clear terms	identify similarities and/ or differences	Global Air Pressure bands H Polar High	L Subpolar Low	H Subtropical High	H Subpolar I H Polar High
er and Clir	Weather Basics ponents: pressur- f these componer is experienced at of factors which de. Prevailing win	lobal air pressu	Command words	Describe	Explain	Identify	State	Compare		hange	is warming due Cutting down 1), burning ulation growth,	to the world ifferent countries will and policies put nate change
Knowledge Organiser Weather and Climate	The weather is made up of a number of components: pressure, precipitation, humidity and sunlight. Each of these components condition experienced in an area. Weather is experienced at difnationally and globally. There are a number of factors which aff are: Distance from the sea., Altitude, Latitude. Prevailing winds	the weather is allected by g . S.	Rainfatt Amount (mm) 466 - 640 641 - 740	741 - 870 1060 1061 - 1260 1061 - 1260 1061 - 4577 1691 - 4577	v f		M			Climate Change	The Earth to human trees (def fossil fuel	are all contributing to the world growing warmer. Different political systems in countries will influence the laws and policies put in place, to slow climate change down.
Knowledg	The weather is m precipitation, hu condition experi- nationally and gl are: Distance fro	At a global scale tr and area receives.	Rainfall Amount (mm) Annual Average				k d k-s				nph winds, tra	
CYCLONES AND ANTICYCLONES		Anticyclones Cyclones Cooler Air sinking Warmer Air Rising	Mean Temperature (*C) Mean Temperature (*C) Annual Average 7.1 - 7.9								Storm Doris 'weather bomb': 94mph winds, travel chaos and snow - live updates	 A woman in Wolverhampton killed by fallen debris Port of Liverpool closed, flights and trains cancelled QE2 and Orwell bridges closed due to high winds Snow blocks Scotland's M80 Stormy conditions likely to hit turnout in byelections The Guardian, Nadia Khomami and Mathew Weaver 23 February 2017

Y7 German - Summer Term 1	Topic: Ferien – Holidays
 1. Was gibt es in deiner Stadt?	What is there in your town?
der Bahnhof / der Park / der Marktplatz	the railway station / the park/ the market square
die Kirche / die Imbissstube / die Kegelbahn	the church / the snack stand / the bowling alley
das Kino / das Schwimmbad / das Schloss	the cinema / the swimming pool / the castle
Es gibt einen/keinen	There is a / no (for masc. nouns - der)
Es gibt eine/keine	There is a / no (for fem. nouns - die)
Es gibt ein/kein (for neut. nouns)	There is a / no (for neut. nouns - das)
2. Was möchtest du kaufen?	What would you like to buy?
Ich möchte (kaufen).	I would like (to buy)
Du möchtest (kaufen).	You would like (to buy)
Er/Sie möchte (kaufen).	He/She would like (to buy)
einen Kuli	a ball pen
einen Schlüsselanhänger	a key ring
einen Aufkleber	a sticker
eine Tasse	a cup
eine Postkarte	a post card
eine Kappe	a (baseball) cap
ein Freundschaftsband	a friendship bracelet
ein Trikot	a (football) shirt
ein Kuscheltier	a cuddly toy
Was kostet das?	What does it cost?
Das kostet (3) Euro (40).	That costs (3) Euro (40).
3. Was möchtest du? Was möchten Sie?	What would you like? (informal and formal)
Etwas zu essen/trinken?	Something to eat/drink?
Ich möchte	I would like
Ich hätte gern	I would like to have
zweimal Bratwurst (mit), bitte.	2 times fried sausage (with). please.
der (einen) Hamburger	the (a) hamburger
der (einen) Tee	the (a) tea
die (eine) Bratwurst	the (a) tried sausage
die () Pommes	the () fries
das(ein) Eis	the (a) ice cream
das (ein) Mineralwasser	the (a) sparkling water
4. Was wirst du in den Sommerferien	What will you do in the summer
machen?	holidays?
Ich werde/ Wir werden	I will / we will
segeln / klettern / wander	sail / climb / hike
tauchen / windsurfen / rodeln	dive / windsurf / toboggan
an den Strand gehen	go to the beach
im See baden	bathe in the lake
im Meer schwimmen	swim in the sea
In den Sommerferien werde ich mit	In the summer holidays I will with
Wir warden nach fahren	We will go to
Wir werden nach fahren	We will go to
Wir werden Wochen bleiben	We will stay weeks.
Wir werden und auch	We will and also
Dort gibt es und auch	There isthere, but no
Man kann dort und	You can there and
Am Montag/Freitag	On Monday / Friday
Ich möchte auch	I would also like to

Y7 German - Summer Term 2	Topic: Ostwind 1 Film Study
1. Was für eine Person ist?	What kind of person is?
Meiner Meinung nach ist…(name)	In my opinion, …(name) is…
frech	cheeky
willensstark	strong willed
freundlich	friendly
selbstbewusst	confident
geduldig	patient
launisch	moody
klug	clever
liebevoll	caring
faul	lazy
eifersüchtig	jealous
2. Becshreibe die anderen Darsteller.	Describe the other characters.
Die Tochter / Enkelin ist	The daughter / granddaughter is…
Der Sohn / Enkel hat…	The son / grandson has
Die Chefin ist…	The boss (female) is
Der Stalljunge ist…	The stable boy is
Das Pferd hat	The horse is
schwarzes Fell	black fur
lange rote Haare	long red hair
kurze braune Haare	short brown hair
sportlich / nervig / gemein / lustig	sporty / annoying / mean / funny
hat eine Glatze	is bald headed
trägt eine Brille	wears glasses
ist verletzt / humpelt	is injured / limps
3. Eine Filmkritik	A film review
Einleitung	Introduction
Der Film heißt	The film is called
Der Titel des Films ist	The title of the film is
In dem Film geht es um	The film is about
Thema des Films ist	The theme of the film is
<u>Filmbeschreibung</u>	Film description
Die Hauptpersonen sind	The main people are
Die Geschichte handelt von	The story is about
Meinung	Opinion
Ich finde den Film	I find the film
gut / schlecht / interessant / uninteressant	good / bad / interesting / not interesting
spannend / langweilig / lustig / traurig	exciting / boring / funny / sad
überraschend / monoton	surprising / monotonous
Meine Lieblingsfigur ist	My favourite character is
Ich mag	l like
Ich mag nicht	I don't like
Meine Lieblingsszene ist	My favourite scene is
Ich würde den Film dir empfehlen /	I would recommend/
nicht empfehlen, weil	not recommend the film because
der Film so spannend ist	the film is so exciting.
der Film so langweilig ist	the film is so boring.
die Geschichte toll ist / nicht so gut ist	the story is great / is not so good.
die Schauspieler gut sind	the actors are good.
die Schauspieler nicht so gut sind.	the actors are not so good.
ich mir der Film (nicht) gefallen hat.	I enjoyed (didn't enjoy) the film.

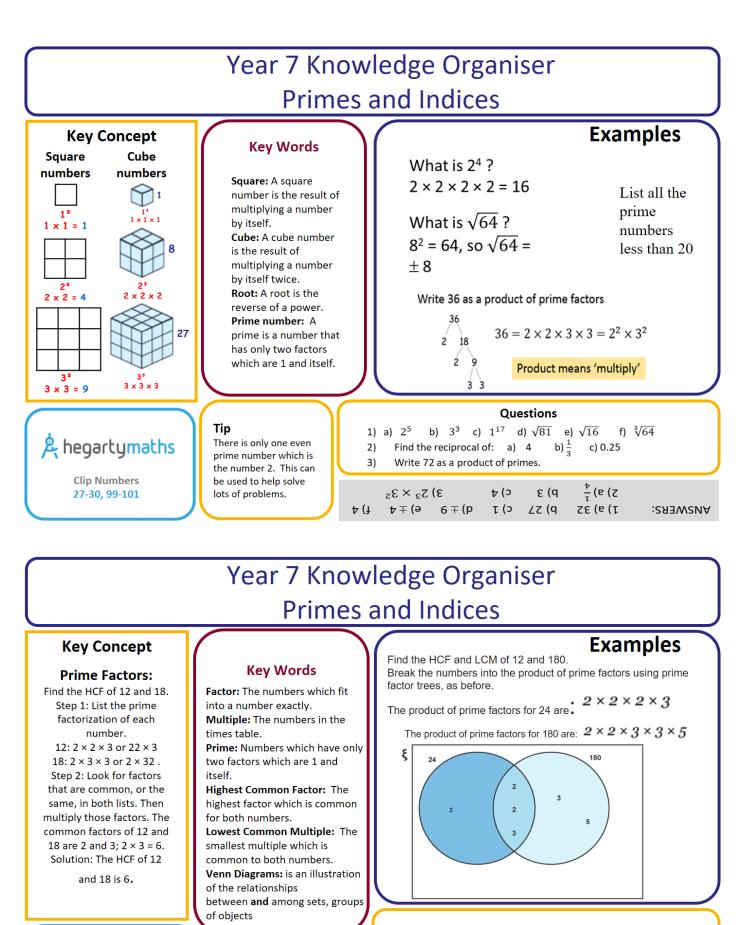
	Kev People	Role	Kev Words	Definition
History	Henry VII	First Tudor King of England (1485-1507)	Spanish Inquisition	An organisation created to ensure Spanish people were
	Ferdinand	The Catholic Monarchs. Joint		keeping to strict Catholicism.
The Tudors	of Aragon & Isahella of	rulers of Spain.	Conquistadors	The Spanish word for
	Castile			"Conquerors". The explorers and soldiers who conquered
	Christopher Columbus	Re(discovered) American in		the New World.
	Henry VIII	1432. Kina of Fnaland (1509-47)	Annulment	To declare that a marriage is
Chronology	Martin	Priest who was instrumental in		divorce, it is as if the marriage
1106 Dotto of Bocuroth / Hond	Τ	the formation of the Protestant		had never happened.
		faith.	Catholic	A Christian denomination.
1102 Christonhar Collimbus	Thomas	Chief adviser of Henry VIII,		The Pope is the head of the Catholic Church
	Cromwell	tesponsible for the dissolution of the monactariae	Protestant	A Christian denomination
1509 Henry VIII becomes kind				which started as a protest
1517 Martin Lither naile his 05	Edward VI	King of England (1547-53)		movement against the
	Duke of	Lord Protector of England		Catholic Church.
Wittenherd starting the		(regent) for Edward VI.	Kerormation	A religious movement which lod to the creation of
Reformation	Earl of	The same person. As Earl of		Protestant churches as
1536 Pilgrimage of Grace	Warwick/	Warwick he put down Kett's		people broke with
1545 Mary Rose sinks	Duke of	Rebellion. After becoming Duke		Catholicism.
	Northumber	of Northumberland he became	Renaissance	A French word meaning
	Thomas	Profestant Archhishon of		"rebirth". A flourishing of the arts and sciences during the
	Cranmer	Canterbury Burnt at the stake		ans and sciences during une early modern period of
1553 Jane Grey and Mary I each		by Mary I.		history.
	Phillip I of	King of Spain responsible for the	Enclosure	Rich landowners merging
1558 Elizabeth I becomes queen		Spanish Armada (Also King of		small farms into larger ones,
1587 Mary Queen of Scots		England during the reign of Mary		usually for the purpose of
executed		I).		raising sheep. This led to
1588 Spanish Armada	Mary,	Catholic Queen of Scotland.	Martvr	A person who is killed for
1603 Elizabeth I dies – James I (Stuart) become kind	Gueen of Scots	Forced to abdicate from power and fled to England.	6	their beliefs (usually religious)
Cutatic pecoline Ming				I Cligioda).



Henry VIII was not a Protestant. Although he broke from Rome and so was no longer Catholic, he did not embrace Protestantism either.

They are different denominations of Christianity.

Catholicism and Protestantism are not different religions.



Тір

A hegartymaths

Clip Numbers

4,6,10, 26 - 34

There is only one even prime number which is the number 2. This can be used to help solve lots of problems. Questions

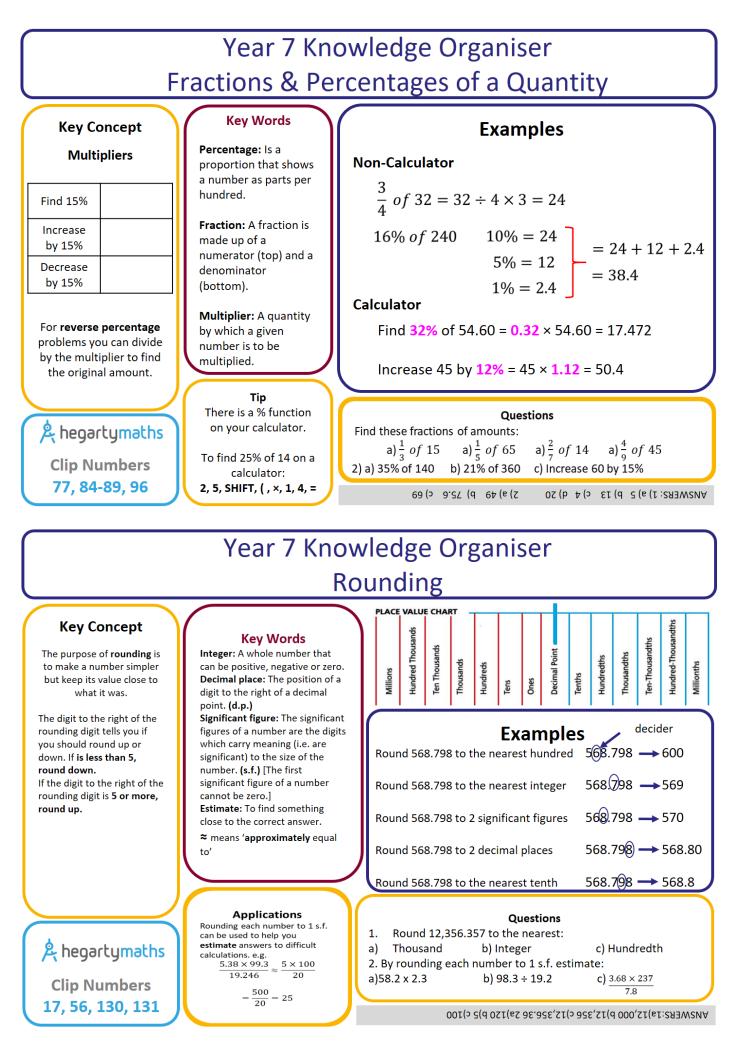
 1) List the first 5 multiples of:
 a)
 7
 b)
 12
 c)
 50

 2) List the factors of:
 a)
 12
 b)
 15
 c)
 16

 3) a) Find the LCM of 5 and 7
 b) Find the HCF of 20 and 16

 J) 1, 2, 3, 4, 6, 12
 b) 1, 3, 5, 15
 c) 1, 2, 4, 8, 16
 3) 3) 35
 b) 4

 L) 3) 1, 2, 3, 4, 6, 12
 b) 1, 3, 5, 15
 c) 1, 2, 4, 8, 16
 3) 3) 35
 b) 4



Music	S Instru	ments of the Orche	ments of the Orchestra/Programme Music
	The Orchestra		Kev Term – Dvnamics
An introduction t	An introduction to the orchestra and orchestral	Revisiting dynar	Revisiting dynamics and key words from Y7/T1
	instruments		Key term – Metre
	Violin, Viola, Cello, Double	Revisiting knowl	Revisiting knowledge of time signatures from Y7/T2
Strings	Bass	Irregular Time	
Woodwind	Flute, Oboe, Clarinet, Bassoon	Signatures	5/4, 7/8
	French Horn, Trumpet,		Programme Music
Brass	Trombone, Tuba	Understanding h	Understanding how different elements of music can
	Timpani, tuned and untuned	be combined to	be combined to create a particular mood or story in a
Percussion	percussion	listener's mind.	
The	The role of a conductor		Identification of different families
The la	The layout of an orchestra		and instruments of the orchestra
Key	Key Term – Sonority	Listening	Investigating creative and
The sonority, or ti	The sonority, or timbre, of an instrument or voice		imaginative responses to different
is the colour, cl	is the colour, character or quality of sound it		and contrasting pieces of music
	produces.		Performance of compositions based
Kej	Key Term - Texture	Performing	upon Programme Music
Texture	How different instruments and		Singing in a class environment
	sounds combine to create	Composing	One or more composition tasks
-	differing layers of sound		based upon Programme Music
Thick Texture	Many layers of sounds		Short research task on the
-	combined	Contextual	orchestra
Thin Texture	Few layers of sounds	Knowledge	Short research task on a famous
	combined		composer



7.5 KS3 Core PE Knowledge Org	gan	Organiser: Joints a	and their Movements		JOINT: A place where 2 or more bones meet
VOCABULARY					
Synovial			(2)	(2) Types of Movement	ıt
Joint				Joints where	
Condyloid Dorsflexion Cartilage	Σ	Movement types	Description	movement takes	Practical Application
Ligament	~	Flexion	Bending the limbs at a	Ball & Socket,	The elbow flexes when performing a pull-up
Extension	(Ľ	Straightening limbs at a	Ball & Socket,	
Adduction	2	Extension	joint	Condyloid, Hinge	I he elbow extends when putting a shot
Abduction Plantar flexion	3	Abduction	Movement away from the midline of the body	Ball & Socket, Condyloid	The hip and shoulder joints during a star jump movement.
Plantar-flexion Dorsi-flexion	4	Adduction	Movement towards the midline of the body	Ball & Socket, Condyloid	The hip and shoulder, returning the arms and legs back to their original position from a star iump movement.
(1) Classification of Synovial Joints (freelv movable)	5	Rotation	Twisting movement around a fixed point	Ball & Socket, Pivot	The hip in golf while performing a drive shot
TNIOL TOVIC 1.	9	Circumduction	Circular movement of a limb	Ball & Socket, Condyloid	The shoulder in cricket when bowling a ball
2. BALL & SOCKET JOINT • Shoulder • Hip	7	Dorsi-flexion	Bending or flexing the toes upwards closer to the shin	Hinge (ankle only)	The ankle in sprinting when positioning their feet in the starting blocks
	œ	Plantar-flexion	Pointing or extending the toe downwards away from the shin	Hinge (ankle only)	The ankle in gymnastics when pointing their to a cartwheel
3. CONDYLOID JOINT • Wrist • Wrist		Flexion	Flexion	Extension	Actation Act

2.	6 KS3 Core P	7.6 KS3 Core PE Knowledge	Command Word: WHICH	Key Misconceptions & Helpful Tips
ŌΣ	Organiser: Joints and their Movements	its and their	Mainly used in multiple- choice questions where a selection from a set of	 Use the correct terminology for a movement: So instead of just stating the arm bends – be more specific by stating the type of movement and the initial involved
	(3) Char Synovial (free	(3) Characteristics of Synovial (freely movable) Joints	options is required, for example 'Which one of the following'	 Abduction: Taking away from the body (abducted by allow).
	Characteristic	Description	,	 Adduction: Adding to the body:
-	Synovial Fluid	Lubricates the joint.	Worked example:	Circumduction – Circular;
2	Cartilage	Cushions the joint and prevents friction and	Which of the following <u>types of</u> <u>movements</u> are possible at the elbow?	 Plantar-flexion: Planting the ball of the foot into the ground; Dorsi-flexion: Dorsal fin of a shark (points upwards out of the water).
		the bone ends.		Worked Example: Analyse the photograph below of the foothall player. State the
3	Ligament	Joins bone to bone, stabilising the joint.	<u>Elexion</u> Rotation Dorsi-flexion <u>Extension</u>	types of movements and the joints being used.
4	Tendon	Joins muscle to bone enabling movement.	Your turn - attempt the following question:	Command Words: ANALYSE
			Which <u>one</u> of the following statements is correct?	Break something down into its component parts, this could be in
	Ligament	Vessel	A Ball and socket joints allow rotation	STATE Involves the recall of a fact. or an
Ĩ	Joint Capsule	Nerve Muscle	B Flexion and extension are only possible at the ball and	example based on the given stimulus.
S) men	Synovial membrane Fat pad	Synovial fluid fluid Meniscus	socket joint C Hinde joints allow abduction	 Let's start with the left side of the body: Left Arm: <u>Abduction</u> at the <u>shoulder</u>, <u>extension</u> at the <u>shoulder</u>.
C N	Articular cartilage	and a second		 Left Leg: <u>Flexion</u> at the <u>hip</u>, <u>extension</u> at the <u>knee</u>, <u>dorsi-flexion</u> at the <u>ankle</u>.
		Tendon	same range of movement	Your turn – attempt to fill in the blanks: Right Arm:at the <u>shoulder</u>, <u>flexion</u> at
J				Right Leg: Extension at the at the knee,

Year 7 Religious Studies Summer Term Festivals and Holy Books Knowledge Organiser

Key Knowledge

Passover is the most celebrated festival in Judaism. It is celebrated in Spring and marks when the Israelites left Egypt to slavery. It begins with a special meal (Seder).

Vaisakhi is a festival in the Sikh and Hindu calendar, usually celebrated around 13th/14th April. In the Sikh religion it celebrates the formation of the Khalsa.

Easter is the most important festival in the Christian calendar. It celebrates Jesus rising from the dead, three days after he was executed.

Wesak is an important Buddhist festival, sometimes known as 'Buddha Day'. It usually happens on the first full moon in May, and is a time to celebrate the Buddha's birth.

The Qur'an is the central religious text of Islam, which Muslims believe to be a revelation from God.

Guru Granth Sahib ji is the central religious scripture of Sikhism, regarded by Sikhs as the final, sovereign and eternal living Guru following the lineage of the ten Gurus.

The **Torah** is the Jewish Holy book. It contains 613 commandments which are followed to different extents by Orthodox and Reform Jews. The **Torah** makes up the **Tenakh** with the **Nevi'im** and the **Ketuvim**. The **Talmud** is another collection of teachings for Jews.

The Bible is the collection of sacred texts within Christianity. It is split into the Old Testament which covers the creation of God, and the New Testament which covers the life of Jesus and his followers.

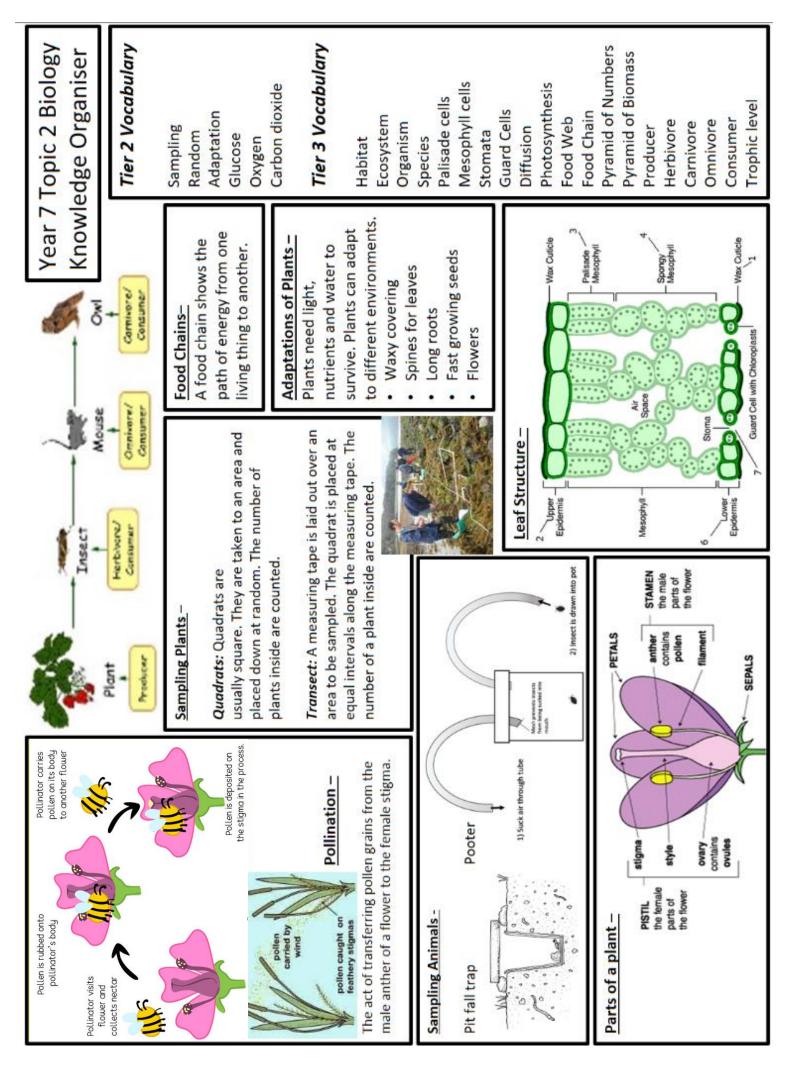
Key Quotes

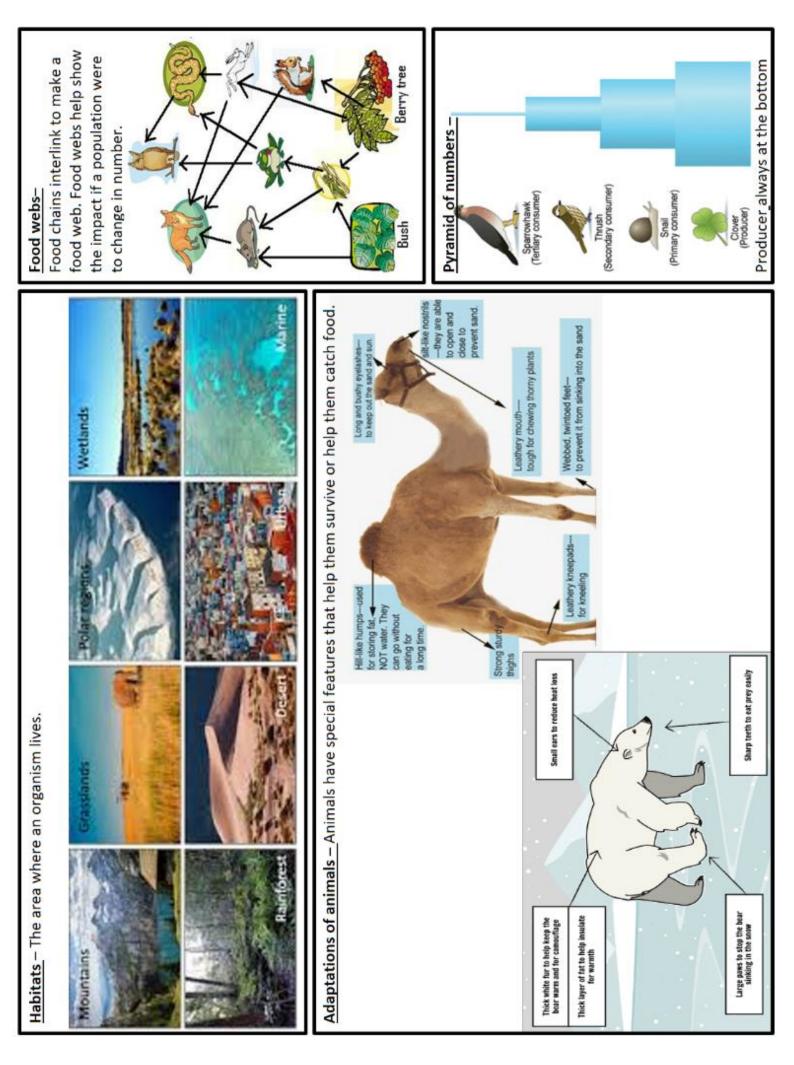
"In the beginning God created the heavens and the earth" (Genesis 1:1)

'He has risen!' (Mark 16:5)

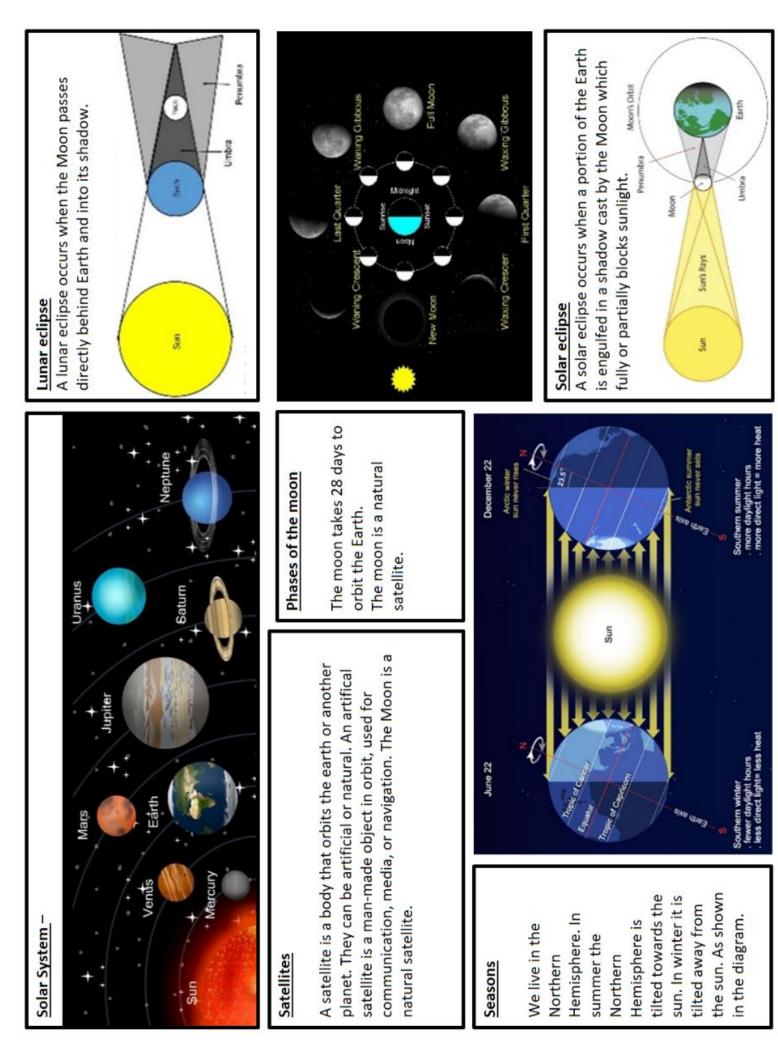
You shall keep the feast of unleavened bread, as I commanded you......' (Exodus 23:15)

Key Term	Definition
Adi Granth	The first version of the Guru Granth Sahib compiled by the fifth Guru.
Akhand Path	Where a granthi will read the entire Guru Granth Sahib from start to finish, usually at a festival or important event. It takes approximately 48 hours.
Amritsar	A city in Punjab, India. It is the site of the holiest shrine in the Sikh religion, the Golden Temple.
Arabic	A language spoken by around 150 million people in the Middle East and North Africa.
Deities	Someone considered divine or sacred. A god/goddess or supreme being.
Exodus	A mass departure of people.
Festivals	A day or period of celebration, typically for religious reasons.
Guru	A religious leader or teacher in the Sikh faith.
Hafiz	Someone who has learnt the entire Qur'an by heart.
Khalsa	The group of initiated Sikhs.
Nishan Sahib	The sacred holy flag found outside every Sikh temple. It is replaced during Vaisakhi.
Reincarnation	The rebirth of a soul in another body.
Sacred	Something connected to religion which is deserving of awe or respect.
Secular	Not connected with religious or spiritual matters.
Seder	The special meal to mark the beginning of the Jewish festival of Passover.
Surah	A chapter in the Qur'an.
Testament	A statement of belief, for example the Old and New Testaments forming the Bible.





Night Day a	Day and Night	Year 7 Topic 2 Physics	sics
It takes JA	se 34 hours for the Earth to	Knowledge Organiser	iser
Day Day Day the sun (n times whe towards the	complete one rotation on its axis. As a result there are times that the UK is facing away from the sun (night) and there are times when the UK is facing towards the sun (day)	The sizes of the forces arrows in this diagram	Tier 2 Vocabulary Sun Star Orbit Planet Earth
<u>Mass vs Weight</u> <i>Mass</i> – the amount of stuff you are made out of (Kg). <i>Weight</i> – The force of gravity acting on that mass (weight = mass x gravity).		show that greater pressure is exerted by the fluid as you go deeper in the fluid.	Mass Mass Weight Rotation Pressure Tier 3 Vocabulary
Mass: 50 kg weight: 110 lbs		↓↓↓	Solar system Satellite Solar eclipse Lunar eclipse Asteroid Comet Meteor Gravity Brownian Motion
Earth	Pressure in gases		Diffusion Particles
The man has the same mass because he is made of the same stuff. He has a different weight because gravity is much less on the moon.	Particles in a gas are spread out. There is lots of space between the particles. Adding pressure pushes the particles closer together. This can be useful in reactions that involve gases because they will be more likely to collide.	out. There is lots of Adding pressure pushes This can be useful in because they will be	Density



Spanish		Y7 Summer term Knowledge Organiser	Organiser	Unit 5: Mi barrio – My area	o – My area
Ke	Key spellings	¿Qué hay en tu	What is there in	¿Qué hora es?	What time is it?
Learn these spellir	Learn these spellings, they will be really useful	ciudad?	your town?	Es la una	It's 1:00
for this unit and yo	for this unit and you will be tested on them.	En mi ciudad hay	In my city there is	Son las dos	It's 2:00
1. está en	it's in	No hay	There isn't	Son las tres y diez	It's 3:10
una ciudad	a city	un castillo	a castle	Son las cuatro y cuarto	It's 4:15
3. voy	1 go	un centro comercial	a shopping centre	Son las cinco y veinticinco	It's 5:25
4. voy a ir	I'm going to go	un estadio	a stadium	Son les seis y media	It's 6:30
5. vamos a jugar	we're going to play	un mercado	a market	Son las siete menos veinte	
		un museo	a museum	Son las ocho menos cuarto	
Key vocabi	Key vocabulary and questions	un polideportivo	a sports centre	Son las nueve menos cinco	
. Cómo es tu casa o	sa o What is vour house	un restaurante	a restaurant	Es mediodía/Es medianoche	It's midday/midnight
tu nlso?		un parque	a park	¿A qué hora?	At what time?
Vivo en	l live in	una piscina	a swimming pool	A la una	At 1:00
una casa/un piso		una plaza	a square	A las dos/tres/cuatro	At 2:00/3:00/4:00
Mi casa/niso es	+	una tienda	a shop	A mediodia	At midday
antiquo/a		una universidad	a university	Be careful to get the right hours when using menos.	nours when using menos.
bonito/a	prettv	unos museos	some museums	7:45 = son las ocho menos cuarto (quarter to eight).	s cuarto (quarter to <u>eight</u>).
cómodo/a	comfortable	unas tiendas	Some shops		
feo/a		muchos parques	lots of parks	¿Qué vas a hacer	What are you going to do?
moderno/a	modern	muchas plazas	lots of squares	Voy a salir	I am going to go out
neotreño/a	small	Can you use a dictionary to look up some	y to look up some	Vas a ver la televisión	You are going to watch TV
arande	bia	more places in the town	12	Va a ir de paseo	He/She is going to go for a
Jonde esta?		J Oué haces en la	What do vou do in		walk
Está en	- I live	ciudad?	town?	Vamos a jugar al tenis	We are going to play tennis
el campo	the countryside	Salgo con mis	go out with my	Vals a chalear	rou (pi) are going to chat
la costa	the coast		friends	Ven e heart les deheres	Offine There are active to do
la montaña	the mountains		l go	van a nacer los deperes	hermonicate bernearch
el desierto	the desert		to the cinema	; ;	Inducement
una ciudad	a city	al parque	to the park	Ne ver	Look at the next page to see
un pueblo	a village	al polideportivo	to the sports centre		
el norte/el sur	the North/South	omercial	to the shopping centre	s	how the verb IR is used to
el este/el oeste	the East/West	a la bolera	to the bowling alley	t	
el centro	the Midlands	a	to the café	so	talk about future plans
The verb ESTAR -	TAR - To be (located)	a	to the swimming pool		
estoy	lam		to the beach	van neygo	
estás	you are	as	l go shopping	2.Te gusta vivir en?	Do you like living in?
está	he/she/it is		I go for a walk	Me gusta (mucho) vivir en	I (really) like living in
estamos	we are	No hago nada	I do nothing	No me gusta vivir en	I (don't like living in
estáis	you (pl) are	Can you spot the rule for using al or a la with	or using al or a la with	porque es/no es	because it is/isn't
están	they are	places?		porque hay/no hay	because there is/isn't

Unit 6: En Barcelona - In Barcelona	
	What can vou do in
er term Knowledge Organiser	¿Qué se puede hacer en
Spanish Y7 Summer ter	Kev enellinge

Key s	Key spellings	¿Que se puede hacer en	hacer en	What can you do in	Tim	Time phrases	
Learn these spellings, the	Learn these spellings, they will be really useful for	Barcelona /	1a /	Barcelona /		tomo	rrow.
this unit and you will be tested on them.	ested on them.	Se puede		You can			TOTTOW
1. quiero	I want	ver un partido en el Camp Nou	I Camp Nou	watch a match at the Nou Camp		-	in summer
2. una ración de	a portion of	ir al acuario/al zoo		go to the aquarium/the zoo	la semana que viene	-	next week
¿Cuánto es?	How much is it?	ver la catedral famosa	osa	see the famous cathedral	este fin de semana		this weekend
4. voy a visitar	I'm going to visit	ir de paseo en el Park Güell	ark Güell	go for a walk in Park Güell	por la mañana	in the	
5. se puede	vou can	visitar el museo Picasso	casso	visit the Picasso museum		morning	ing
		aprender a cocinar tapas	tapas	learn to cook tapas	por la tarde	in the	
Key vocabulai	Key vocabulary and questions	ver un espectáculo flamenco	flamenco	see a flamenco show		evening	ing
En la cafataría	In the café	disfrutar de las vistas en	as en	enjoy the views in Montserrat	t primero	first	
: Oné milara/e/2	What do voir want?	Montserrat			luedo	then	
	(-s = informal)	ver artistas callejeros en Las	os en Las	watch performers on	después	after	
Qulero	I want	Ramblas		Barcelona's main street.	finalmente	finally	
un batido de	a chocolate/strawberrv	hacer una visita guiada	lada	do a guided tour	Makre sure vou alwavs use a	u alwavs us	e a time
chocolate/fresa	milkshake	ir a la playa		go to the beach	Dhrase to make it clear which	e it clear wh	ich
un té/café	a tea/coffee	Se pueden		You can (plural)	tense voli are using and link volir	using and I	nk vour
una Coca-Cola	a Coca-Cola	comer platos típicos	s	eat regional dishes		using segu	ncers
una Fanta limón	a lemon Fanta	comprar recuerdos en la	en la	buy souvenirs in the Boqueria		vego, and	
un granizado de limón	an iced lemon drink	Boqueria		market	finalmente.		
una ración de	a portion of	comer churros en un cate	un care	eat churros in a cate	 		
calamares fritos	fried squid	Kev ar	Key grammar – Th	The near future	¿que vas a hacer	what are you	e you
croquetas de jamón	ham croquettes	Use the near future	e to talk about v	Use the near future to talk about what is going to happen (I	en barceiona r	Barcologia	
gambas	prawns	am going to eat, he	e is going to bu	am going to eat, he is going to buy, we are going to dance)	Vau a	Parcel I'm going	DILAC
pan con tomate	bread with tomatoes	, ,)	· ·	voy a		
patatas bravas	spicy potatoes	This tense is forme	ed by 3 parts, m	This tense is formed by 3 parts, make sure you have all of	Vamos a	We're going to	g to
tortilla española	Spanish omelette	them to use it correctly	ectly.		Mi hermana va a	My sister is going	s going
¿Algo más?	Anything else?					to	
No, nada más.	No, nothing else	 The present 	The present tense of IR (the verb to go)	he verb to go)	Mis padres van a	My parents are	s are
¿Y de beber?	And to drink?					going to	
¿Cuánto es?	How much is it?		verb	n -ar/er-ir)	montar en bici	go cycling	
Son tres euros	lt's 3,50€	1. The 2.	ā		comer helados	eat ice creams	ms
cincuenta		present			visitar monumentos	visit monuments	nents
The verb QU	The verb QUERER -To want		VerD	I am acting to act	ir de naseo	do for a walk	4
aulero I w	I want	202		I am guing to eat	-		-
	vou want	Vas	bailar	You are going to dance	comprar recuerdos	puy souvenirs	IIS
	he/she/it wants	Va	a llevar	(S)he is going to wear	sacar fotos	take photos	
sou	we want	Vamos		We are going to visit	tomar el sol	sunbathe	
	you (pl) want	Vals	comprar	You (pl.) are going to	ir de excursión	go on a trip	
quieren the	they want	Van	beber	They are going to drink	descansar	relax	
				the second secon			

Year 7 KS3 Timbers and Boards

S USED	Bench Hook		Coping Saw		Tonnon Sau			G Clamp		Woodwork	Vice		Drilling Jig with 2	rdunno-o	Glass Paper		Y USED	Jig Saw	(Hegner)	Disc Sander		Pillar Drill
HAND TOOLS USED			\square		C	3	C										MACHINERY USED	-	ł			K
	Disadvantages Generally harder to cut and shape		ntages	knotty	Weaker, less durable	Can warp twist and bend		t is not as attractive	by water	sive used the dust is		Electronics – Circuit	Battery + Switch Br + Switch SW1	sistor	470 A simple circuit has been	created to run a colour	change LED. It consists of	Battery <u>+</u> +-+- Switch		Resistor Soldering	If you burn	vouser ron the burn under cold water for at least 15mins
		More expensive	Disadvantages	grown quicker) Can be knotty	Weaker,	Can war	od/MDF Disadvanta <u>ge</u> s	-	But MDF Is damaged by water	Because of the adhesive used the dust is harmful		Elec	diode (LED) ictrons are sitive leg		(0	► If the legs have been cut to cre	+					
Hardwood	Advantages Good Aesthetics (looks good)	Extremely durable	Softwood Advantages	More sustainable (trees grown quicker)	Easier to cut and shape	Cheaper	Man made Boards- Plywood/MDF Advantages Di	It is easy to cut and shape	Takes paint well	Available in large sheets		Electronics – LED's	 A light emitting diode (LEC lights up when electrons are flowing through it LEDs have a positive leg 	and a negative leg	The anode longer leg The cathods a shorter leg		the negative le	edge to the plastic casing.	Man made	board can be cut on a laser cutter or on a CNC machine	MDX15	This is how the HIPS (plastic) letter stencils were created.
	(Cut from a Tree)	(Manufactured from natural wood sheets, pieces or fibres to create a board such as MDF, Plywood			s, Hardwood and Softwood.	<u>e</u> for each group	Softwood	From irees win neeales Fast growing	Cheaper	Wide grain Less attractive Less moisture resistant	(More likely to rot)	Less dense	Lighter Easier to cut An example would be Pine		Plywood – Manufactured Board Thin layers of wood glued together with grain at 90° angles.			And Bergen	Aesthetics of Timber	Lines in wood are called the grain	called knots and	show where a branch grew
	(Often used as a general term) Man Made Boards	(Manufactured from	and Chipboard.)	Look of Wood	Natural wood can be divided into two groups, Hardwood and Softwood.	The properties shown below are generally true for each group	Hardwood	slow growing	More Expensive	Close grain Considered more attractive More moisture resistante. [less		Denser	Heavier Harder to cut An example would be Oak	Manufactured Board or Man Made Boards	MDF – Medium Density Fibreboard Plywoo Wood fibres glued together and rolled Thin lay flat to form a sheet. with gr				Age of a Tree The rinas on a tree stump indicate	annual growth so you can age a tree by counting the number of rings.	Wide rings show wetter	weather when the tree grew more and narrower rings show dryer years when the tree did not grow as much.

Health and Safety: Plywood and MDF dust is harmtul so must not be machined without extraction and/or a mask to prevent you from breathing in the dust.

Year 7 KS3 Health & Safety

Health and Safetv

Safe use of tools and materials is vital to everyone in the chain of production. Employers have a duty of care to ensure everyone is adequately trained to use tools and equipment.

Personal protective equipment (PPE) must be worn where

recommended:

Health and Safety:

the nearest emergency exit, first aid facility or

personal protective equipment is worn, or convey that fire exit doors should be kept signage can restrict access, ensure that fire fighting equipment. Effective safety

olear.

Safety signage can also be used to warn of potential hazards, indicate the location of

Signage:

Health and Safety Rules

- Never enter a workshop without a member of staff present! You may
 - be at risk of injuring yourself or others.
 - Always put bags in basket trip hazard
- Remove blazers and jumpers for a practical so you do not damage them. Or get them caught in machinery.
- Remove the for every practical so it does not get caught in machines.
- Do not touch machines and equipment you could injury yourself.
 - Remove fie for every practical so it does not get caught in mc
 Put chairs away during all practical work—trip hazard.
 Do not touch machines and equipment you could injury yours
 Tie back long hair to prevent it from being caught in machines.
 Always wear goggles so you don't injury your eyes when using
 - machines.
- Always wear an apron so you do not damage your clothes. No running so you don't hurt yourself or other people.
 Always wear an apron so you do not damage your cl Watch and listen to teacher demonstrations so you kr
- follow the practical task. If you do not pay attention you may injury Watch and listen to teacher demonstrations so you know how to yourself or other people.
- Only one person uses/operate machinery at a time. To prevent injury to yourself or others.
- Goggles on all to protect clothing Aprons on jumper removed Ties, blazers and Long hair tied up Stools & bags away Trip Hazard
 - machinery
- to protect eyes



Examples of using PPE

Protective gloves and aprons for work with heat, eg brazing

¢

- Goggles where there may be splashing or splinters, eg metals ¢
- Chainmail gloves when cutting with a fast-moving blade chemical use or using machinery ٠
- A thimble to offer protection from puncture wounds when ٠
- Ear protection when using or working around noisy equipment sewing through thick materials by hand ٠
 - Dust mask when spray painting or routing wood ٠ ٠
- A lot of safe working practice is common sense, such as tying hair back or tucking in loose clothing, but it is important that workers follow the rules set out by their employer.
 - Machines cannot be left unattended ٠
- needs to be switched off when changes are being made, e.g. All machines need to be fitted with an isolating switch, which swapping a drill bit ٠
 - Work should be clamped down when cutting to avoid the risk Guards and dust extraction should be fitted where possible ٠
 - Tools should be stored safely when not in use of movement ٠
- Signage must be in place where there may be a health and safety risk ÷

Emergency Stop

control circuit of

series with the

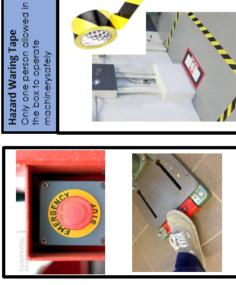
are wired in

Buttons

When pushing the mushroom

equipment.

machinery



emergency stop

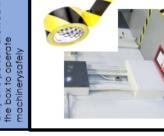
head of

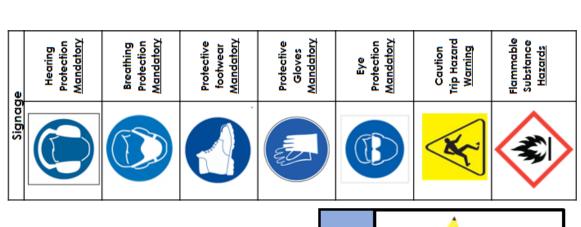
button will break

the circuit of

machinery

equipment and supply from the removes power





Health and Safety: MDF dust is harmful so must not be machined without extraction and/or a mask to prevent you from breathing in the dust

circuit energized

RECYCLING

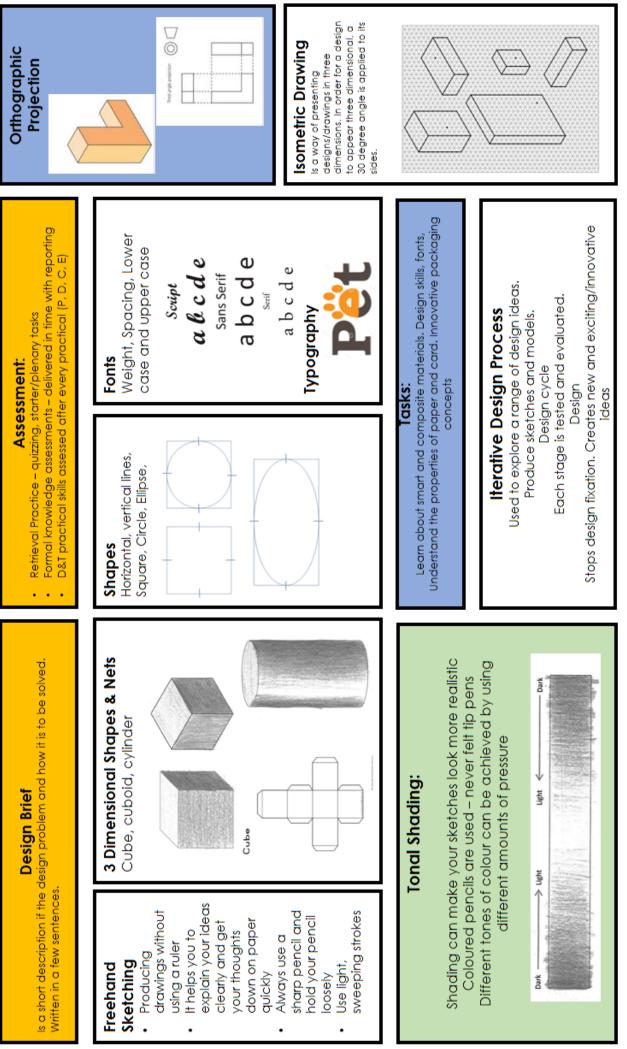
MERGENCY

FIRE SAFETY

Exit

that keeps the



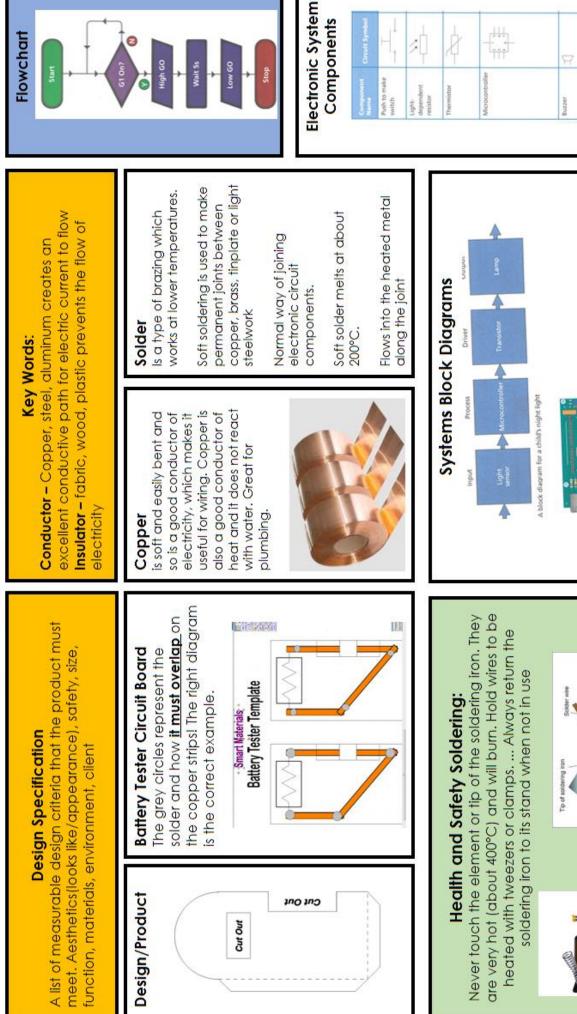


composites
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KS3
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Year

Key Facts: The external stimulus could be, for example,	temperature, light, moisture, stress or ph.	 Key Facts: This change may show itself by: A change in volume (shore 2 size) 	 A change in colour A change in viscosity (thickness) 	 This change may be caused by: A change in temperature 	 A change in light levels 	 A change in stress (pressure) An electrical current or 	magnetic field	Year 8 – Textiles, Plastic, Metal CAD & Electronics	
s ne with reporting II (P, D, C, E)	Ferro Fluid Are made up of	iny magnetic fragments of iron suspended in oil. Each of the points is a line of the magnetic	field.			esign skills, fonts, ovative packaging	mine Wainht for	up to six times the e not mixed at a	polyester for tent sprits equipment
Assessment: Retrieval Practice – quizzing, starter/plenary tasks Formal knowledge assessments – delivered in time with reporting D&I practical skills assessed after every practical (P, D, C, E)	Shape Memory Alloy	If bent or distorted will change to their original shape when heated. They are used for	which if accidently bent can be heated and returned to their original shape.	G		Tasks: Learn about smart and composite materials. Design skills, fonts, Understand the properties of paper and card. Innovative packaging concepts	Composites Combine the properties of two or more moterials. Weight for	weight, a carbon-fibre-reinforced can have up to six times the strength of steel. Unlike alloy, the materials are not mixed at a chemical level.	Fibreglass: car body parts, carbon-reinforced polyester for tent poles and high performance bike frames and sprits equipment
 Retrieval Practice – Formal knowledge (D&I practical skills a 	Smart Putty It is malleable and	Yet when subjected to shock loading such as being hit with a hammer or falling from a height it behaves as	though it is hard. Motorcyclist body armour and protective cases for expensive devices.	Smart Materials		Learn about smart Understand the prope	and an an an an an an an an	weight, a carbon-fib strength of steel. Un	Fibreglass: car body poles and high perfo
: ernal stimulus. This , smart material is	Photochromic Examples of paint	programment and ordering as to ultra Violet (UV) light. microcapsules in a powder pigment form Photochromic	powders are colourless in their inactivated state and become coloured when exposed to an ultraviolet light source.	They will also respond to natural sunlight.		Smart Materials			
What are Smart Materials: Have a property that changes in response to an external stimulus. This change is reversible if the stimulus changes again. A smart material is one that reacts to its environment all by itself.	Thermochromic Reacts to the	remperature of heat/water/human heat. Resistance to current in batteries produces heat. to change the	properties of the thermochromic (change) material.			smart Martials:			
What are Smart Mat Have a property that changes in response to change is reversible if the stimulus changes a one that reacts to its environment all by itself.	Polymorph Polymorph is a biodecondable polyarter	thermoplastic thermoplastic and can be restaped (repeatedly) when hot but sets when cold.	When in its set form is an opaque white colour. When added to boiling hot water the granules	torn transparent and start to join together. Once removed from the hot water the polymorph is soft and malleable and	can be easily moulded.				AN .

	Key Facts: Paper & card are made from cellulose fibres derived from	 Key Facts: Chemical are added to clean and produce texture to paper and card. Wood pulp is sourced from trees. New trees are planted to replace felled (cut trees). Most paper can be recycled and mixed with wood pulp. 	 Min wood pulp. Recycled paper can not be used for food packaging. Is biodegradable. Year 8 - Textiles, Plastic, Metal CAD & Electronics
	ks me with reporting al (P, D, C, E)	Solid White Board Strong High quality Pure bleached white pulp Book covers Expensive packaging Dyed	esign skills, fonts, ovative packaging
Board	Assessment: Retrieval Practice – quizzing, starter/plenary tasks Formal knowledge assessments – delivered in time with reporting D&T practical skills assessed after every practical (P, D, C, E)	Duplex Board White surfaces Grey fibres between layers Waxed lining Absorbent Tough May include additives to prevent moisture Ca not be recycled Food packaging	Tasks: Learn about smart and composite materials. Design skills, fonts, inderstand the properties of paper and card. Innovative packaging concepts Inderstand the properties of paper and card. Innovative packaging concepts Image: State of the properties of paper and card. Innovative packaging concepts Image: State of the properties of paper and card. Innovative packaging concepts Image: State of the properties of paper and card. Innovative packaging concepts Image: State of the properties of paper and card. Innovative packaging concepts Image: State of the properties of paper and card. Innovative packaging concepts Image: State of the properties of paper and card. Innovative packaging concepts Image: State of the properties of t
KS3 Paper and Board	 Retrieval Practice - Formal knowledge D&T practical skills 	Corrugated Cardboard Two or more layers Interlacing fluted inner sections Strength Light weight Recycled material Dark brown 250gsm Boxes Packaging	Learn about smart Understand the prop
Year 7 KS3	IS: A0-A1 used in Metre (the	Grid Paper Printed square lsometric grids 60-100gsm Quick sketches Model making	- Sizes:
	Standard Sizes and Forms: Paper is available in sheet,ply or rolls. Colours. Size A0-A1 used in schools. The weight of paper and card – GSM Gram Square Metre (the thickness of paper – card). Normal paper is 80gsm .	Cartridge Paper Tough Lightly textured Light in colour/white 100-150gsm Drawing and painting Printed flyers Leaflets	Paper Paper A4 attraction A4 attraction A2 eady- factor fa
	Star Paper is available in sh schools. The weight of paper a thickness of paper – co	Tracing Paper • Relatively hard • Translucent • 50-90gsm • Working drawings replicate/copy replicate/copy	Duplex and Corrugated

Year 7 KS3 Electronics and Soldering



An Electronic System

Printed PCB Circuit

Board (PCB)

100 m

Cant

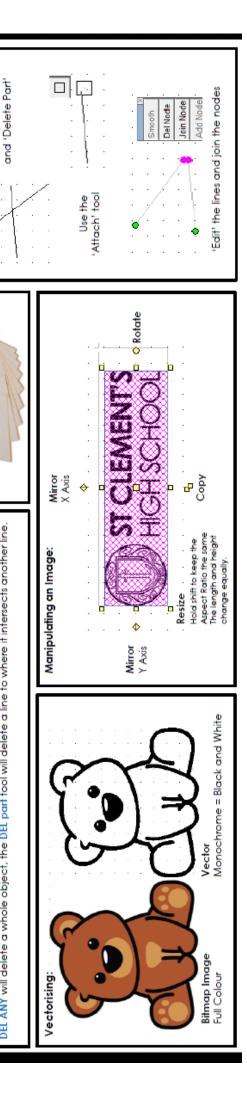
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KS3 Knowledge Organiser – Year 7 CAD/CAM

Computer Aided Design

Computer Aided Manufacture

Advantages	Disadvantages		AdVa	Advantages	Disadvantages
Highly accurate	Expensive set up		Accu	Accurate to low tolerances	Expensive to set up
Can communicate with CAM	Requires Training		Quick	Quick – rapid prototyping	Requires Specialist Training
Files can be saved/shared via email	Files can corrupt/be deleted	in the second se	Multip	Multiples can be produced easily	Job loss to automation
Can use features like copy and paste	Requires access to a computer				
Drawing Aides and Tools:				Black = Laser engrave Laser moves quickly at a low power 	a low power
	Grid Grid Dots on the grid are 10mm apart	are 10mm apart		Red = Laser cut Laser moves slowly at high power	ligh power
Circle . 🕢 Arc	Grid Lock 100K LOCK Step Lock	1cm = 10mm		-	
boute Shape I V Path	Attach 🖂 🛃 Radial Lock		Garage Keys	Garage Keys Other colours can be set up and used as required	used as required
Boundary Fill 🕼 📶 Boundary Fill	Zoom 🕂 🖵 Zoom			:	
		Group / Ungroup	Materials suitable for laser cutting: Acrylic – Thermoforming Plastic	iser cutting: G Plastic Card/Paper	
៉ុ <u>ស</u> Contour			MDF – Manufactured Board Plywood – Manufactured Board	loard ed Board	Tell
Decing	Undo Lissi ←		Card/Paper - Paper/Board Felt - Fabric	bard	
- Make 3D	Remember: 2D Design can only undo ONCE!				
			Acrylic	MDF	



How to ensure a closed boundary:

Overlap lines

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Plywood

DEL ANY will delete a whole object, the DEL part tool will delete a line to where it intersects another line.

If you hold the mouse button down over a tool you

will be offered a variety of options.

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Delete <u>a</u> Ü

Zoom

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Notes Page