Home Learning Booklet



Knowledge Goals Year 8 Half Term 4

How to self-test

Mind mapping

- Mind mapping is simply a diagram to visually represent or outline information.
- Use information gathered from your knowledge goals booklet to create mind maps, make sure to use colour and images, keep writing to the bare minimum.

How to mind map:



Information for parents on knowledge retrieval



Flash cards

Use your knowledge goals booklet to make flash cards. Write the questions on one side and on the other record the answer. Test yourself or work with a friend to make sure you know all the key information for each topic.

How to mind map:



How should students use the Knowledge Goals booklets?

Your Knowledge Goals booklet provide the essential knowledge that you need to learn in each subject this half term. You are **expected to spend 30 minutes per subject per week 'learning' the content**. You will be assessed during lessons using 'low stake' quizzing. **Your teacher may choose to set you additional homework.**

How can parents support?

- Read through the organiser with your child if you don't understand the content then ask them to explain it to you 'teaching' you helps them to reinforce their learning.
- Test them regularly on the spellings of key words until they are perfect. Get them to make a glossary (list) of key words with definitions or a list of formulae.
- Read sections out to them, missing out key words or phrases that they must fill in. Miss out more and more until they are word perfect.

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Suggested Homework Schedule (1 hour of independent study per night).

To help you get organized, we have planned out your weekly home learning to cover all subjects. You may choose to create your own version:

Week A

Day	Subject 1 (20mins)	Subject 2 (20mins)	Subject 3 (20mins)
Monday	Art	English Language	Physics
Tuesday	Biology	Technology	Maths
Wednesday	Chemistry	Spanish	Music
Thursday	Computer Science	Geography	RS
Friday	Design Technology	History	PE

Week B

Day	Subject 1 (20mins)	Subject 2 (20mins)	Subject 3 (20mins)
Monday	Drama	Personal Development	Teir 2 Vocab
Tuesday	Maths	English	Physics
Wednesday	Chemistry	English	Music
Thursday	Teir 2 Vocab	Maths	Biology
Friday			

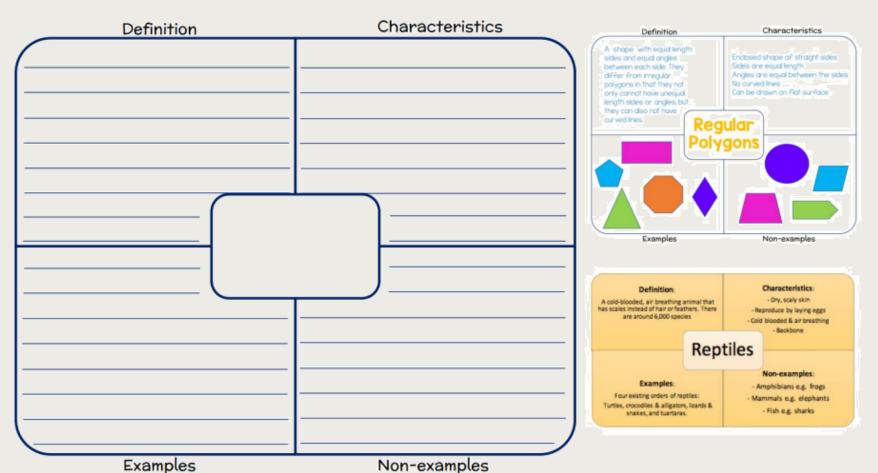
Literacy Tier 2 Vocabulary

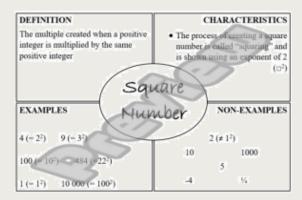
These words are all 'tier 2' words; in other words, they are seen as 'academic vocabulary' and if you know them, can understand them and use them, you will do better in your exams and be able to communicate more precisely and effectively in life.

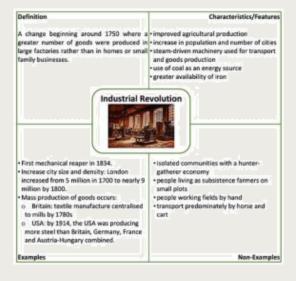
#	Key word	Definition
1	Advocate	
2	Benefit	
3	Clarity	
4	Define	
5	Hierarchy	
6	Liberate	
7	Modify	
8	Notation	
9	Objective	
10	Qualify	

Literacy Tier 2 Frayer Model

examples







Have a go at creating a Frayer Model for each of the 6 tier 2 words from this term (blank templates are at the back of the booklet for you to complete this activity).

Watch these video for more information https://www.youtube.com/watch?v=Lod DXM46YXI https://youtu.be/vHOPdddnLCc

Knowledge Goals: Art

Project overview

Using **architecture** as a theme, you will develop skills in observational drawing from secondary sources using coloured pencil crayons, poster paints **and ceramics**. You will research the work of artist/architects **Fritz Hundertwasser** and **Antoni Gaudi**. Students use their sketchbooks to develop ideas. Final outcomes are an A4 **patterned footprint** drawing and a **ceramic house**.

Key terms

Architecture – The practice of designing and constructing buildings

Form – A shape in 3 dimensions

Pattern – Repeating line, shape or colour

Sculpture - an artistic form in which materials are worked into three-dimensional art objects

Fritz Hundertwasser

- Austrian architect, designer and artist.
- He had a mystical approach to art, which he developed self-consciously throughout the rest of his career.
- In the late 1940s he began producing his own abstract work.
- The common themes in his work utilised bright colours, organic forms, a reconciliation of humans with nature, and a strong individualism.
- · He rejected straight lines.





Antoni Gaudi

- · Spanish architect and designer.
- He designed architectural space using wrought iron, furniture, stained glass, sculptural work, mosaics and ceramics.
- The sea landscape was one of his most preferred inspirations.
- He was also inspired by nature and he also used a lot of mosaic to create this feeling.





Knowledge Goals: Biology - Respiration

Aerobic respiration

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

- Uses oxygen.
- Occurs in the mitochondria.
- Releases large amount of energy.

Anaerobic respiration

glucose → lactic acid (+ energy)

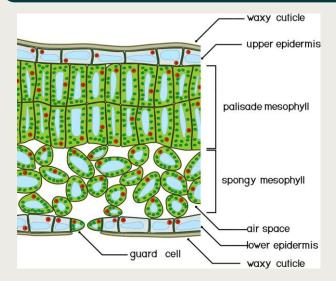
- Does not use oxygen.
- Occurs in the cytoplasm.
- Releases small amount of energy but quickly.

Plants make their own food by a process called **photosynthesis**.

carbon dioxide + water
$$\xrightarrow[\text{chlorophyll}]{\text{light}}$$
 glucose + oxygen

Factors affecting photosynthesis

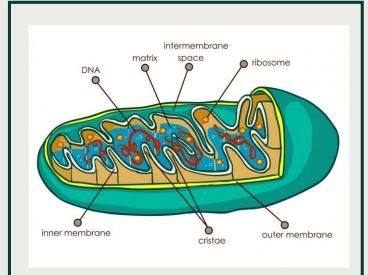
- Light level
- Carbon dioxide
- Temperature



Stomata – found at the bottom of a leaf, surrounded by guard cells. They open and close to allow gases in and out.

Palisade cells – located near the top of the leaf. Contain lots of chloroplast where photosynthesis occurs.

Mesophyll – contain lots of air spaces to allow gases to move through the leaf.



Aerobic respiration takes place in the mitochondria. The mitochondria has inner folds to increase the surface area for more respiration.

Knowledge Goals: Biology - Respiration

		Half Term 4: Tier 3 Vocabulary
#	Key word	Definition
1	aerobic respiration	Breaking down glucose with oxygen to release energy and producing carbon dioxide and water.
2	anaerobic respiration	Releasing energy from the breakdown of glucose without oxygen, producing lactic acid (in animals) and ethanol and carbon dioxide (in plants and microorganisms).
3	fermentation	Occurs in yeast and bacteria where energy is released from the breakdown of glucose without oxygen, producing ethanol and carbon dioxide.
4	photosynthesis	A process where plants and algae turn carbon dioxide and water into glucose and oxygen, releasing energy.
5	chlorophyll	Green pigment in plants and algae that absorb light energy.
6	stomata	Pores in the bottom of a leaf which open and close to let gases in and out.
7	fertilisers	Chemicals containing minerals that plants need to build new tissues.

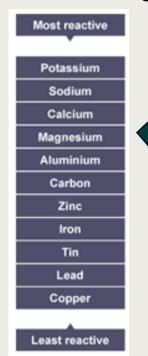
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21% oxygen, O₂ 1% argon, Ar 78% nitrogen, N₂ 0.04% carbon dioxide, CO₂

Atmosphere 3

- Thermal energy passes through the Earth's atmosphere
- 2 Some thermal energy is absorbed by greenhouse gases
- Less thermal energy escapes back into space
- The lower atmosphere warms up

Knowledge Goals: Chemistry – Earth 2 - Climate



EXTRACTING METALS

- · Aluminium is extracted from bauxite rock (an ore).
- The method for extraction depends on the reactivity of the metal.
- Any metal below carbon in the reactivity series (e.g. zinc, iron, lead, copper) can be displaced from its compound by carbon. For example; carbon + copper oxide à copper + carbon dioxide
- If a metal is above carbon in the reactivity series (e.g. aluminium, magnesium, sodium), it will be extracted from its ore by electrolysis. This is an expensive process as the mineral must be heated to high temperatures so it melts (lots of energy is needed).
 Greenhouse gases may also be produced.

Climate change

Human activities can add extra greenhouse gases to the atmosphere such as burning fossil fuels, burning forests and intensive farming (especially cows) Extra greenhouse gas causes global warming. This can change weather patterns causing extremes of weather like storms, droughts or heatwaves Long term this may cause polar ice caps to melt, sea levels to rise, crop failure or extinction of species



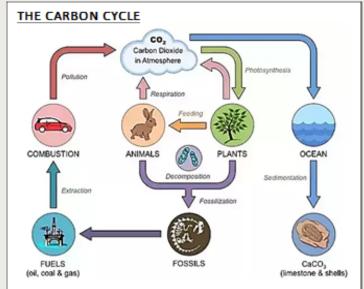
- The Sun heats the Earth's surface
- The warm surface emits radiation
- Some of this radiation goes into space but some is absorbed by greenhouse gases.
- This keeps the Earth warm (the Greenhouse Effect)

The Earth's temperature is gradually increasing and this is called <u>global warming</u>. Examples of greenhouse gases in the atmosphere are carbon dioxide, water and methane

How can we slow down

Climate change?

Use cars less
Eat less meat
Buy and waste less
Generate electricity using
solar panels or wind



- Carbon is constantly recycled through natural processes in the atmosphere, ecosystems and Earth's crust. Human activities also contribute to carbon recycling.
- Respiration and combustion ADD carbon dioxide to the atmosphere.
- Photosynthesis and carbon dioxide dissolving in the oceans REMOVE carbon dioxide from the atmosphere.

Recycling

Examples

Aluminium (cans and foil containers), glass bottles and jars, paper and cardboard

Benefits

Earth's resources will last longer There will be less waste to dump There will be less pollution

Disadvantages

Some people think recycling is a nuisance Lorries that collect recycling create pollution

A lot of recycling must be sorted by hand and is a very expensive process



Knowledge Goals: Chemistry - Climate

	Half Term 4: Tier 3 Vocabulary				
#	Key word	Definition			
1	atmosphere	The mixture of gases surrounding the Earth.			
2	extraction	Separation of a metal from a metal compound.			
3	A fuel made from the remains of animals and plants that fossil fuels millions of years ago. Fossil fuels include coal, oil and n gas.				
4	global warming	The gradual increase in the average surface temperature of the Earth.			
5	greenhouse effect	When energy from the Sun is transferred to the thermal energy stores of gases in the atmosphere.			
6	greenhouse gas	A gas that contributes to the greenhouse effect, such as carbon dioxide and methane.			
7	ore	A naturally occurring rock that contains a useful amount of metal (which will need to be extracted from it).			
8	recycling	Collecting and processing a material so that it can be used again.			
9	intensive farming	A way of producing large amounts of food quickly using large amounts of chemicals and energy and producing lots of pollution.			

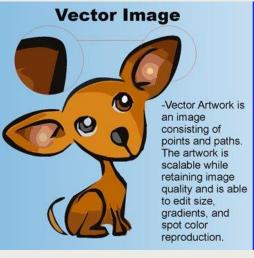
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Knowledge Goals: Computing

Graphics software you can use at home

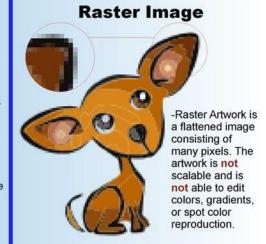
GIMP Photopea Canva

iPhone



444.5 GB of 512 GB Used

Photos
 Apps
 Messages
 Calculating...



As with all files saved on a computing device, image files are saved into a **binary** format. We can convert binary (base-2 counting) into **denary** (base-10 counting) this way

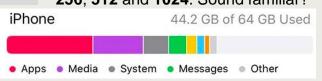
128	64	32	16	8	4	2	1		
0	0	0	1	1	0	1	0	= 26	(16+8+2)
1	0	1	0	0	1	0	1	= 165	(128+32+4+1)
0	0	0	0	1	0	1	0	= 10	(8+2)

1	U	= 10	(8	(+Z)		
iPhone		95.42	B of 1	28 GB (used	iPho
Applications	s • Pod	lcasts 🔸 Me	essages	Music	• TV	 Ap

Image file types						
	.jpg	The most common type of image file type you will use. Uses lossy compression to reduce file size				
Raster	.gif	A type that can store a series of images to form animation				
image types	.png	These images can be saved with a transparent background, making them very useful for image editing				
	.tiff	A raster file that uses lossless compression, meaning it won't lose quality when copied, recompressed, etc.				
Vector image t ypes	.eps	A universal file type for vector artwork which can be used on most design software				
	.ai	The file type for Adobe Illustrator, the industry standard software for design work				
	.pdf	A file type developed by Adobe to assist in viewing vector designs without needing design software. Used for sharing graphics and documents				

Many computer products use the numbers in the column headers for binary – check the memory on your phone, your PC, etc

If we continue the column headers, we will get to **256**, **512** and **1024**. Sound familiar?



Choose your capacity.

How much capacity is right for you?

128GB¹
From £999

512GB¹
From £1,299

1тві

From £1,649

256gB1

Knowledge Goals: Computing

	Half Term 4: Tier 3 Vocabulary				
#	Key word	Definition			
1	Lossy	A type of compression that removes some of the data that is considered unimportant in order to reduce size, such as a .jpg or .mp3 file			
2	Lossless	A type of compression that keeps all data to make sure the file is exactly the same after being recompressed, such as a .pdf or .wav file			
3	Raster	An image formed from cells of colour organised into rows and columns. Each cell is allocated a value to represent the specific colour that cell is showing. Digital photographs are classed as raster iamges			
4	Vector	Vector graphics are digital images created from a series of geometrically defined points, lines, and shapes. Artwork like clipart and fonts are examples of vectors			
5	Animation	A series of images put together and shown in order at a certain speed to give the illusion of movementgif files can store such animation			
6	Transparent	In terms of images, it is the lack of colour, allowing images to be layered together to form a more compelx imagepng images can be used in this way is graphics software like Photoshop or Gimp			

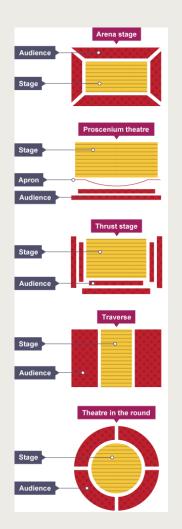
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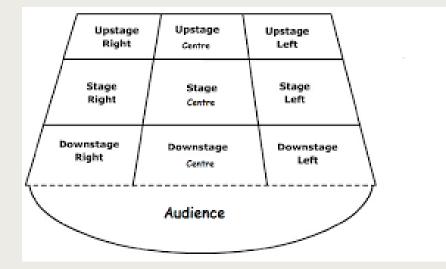
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Knowledge Goals: Drama

Proscenium Arch



Thrust Stage



What are the advantages and disadvantages of the different types of stage?

Creating a Theatre Set

Set designs have many functions. Some of the most important are: • Creating a sense of place (location) and time (period)

- · Highlighting important dramatic themes or issues
- Creating an imaginative and interesting acting space





Decide which audience positioning is most appropriate for the scene or play: Theatre in the Round, Traverse, Thrust or Proscenium Arch. Try to think of some reasons why.



Look at the 'functional demands of the action'.

What does the scene require in terms of set
and props? Make a list of what you need
and how you can get it.



Position scenery, furniture and props so entrances and exits are not blocked and the acting space is clearly defined. The centre stage area is usually left free for the actors to use.



Can the audience see all the characters on stage? Positioning should allow the audience to see the actor's face. The audience should not be able to see off stage. Use levels if possible.



Does the set allow the actors to move around freely? Can they sit and stand without being cramped and confined? Do they face the audience?



Is the play dark and serious, or light and happy? What period is it set in? The style and atmosphere created through the set will help establish the mood.

Remember

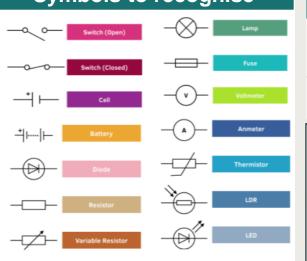
Try sitting in the audience to make sure everything is working.

Knowledge Goals: Technology - Electronics

Health and Safety
It is really important we ASSESS the
RISK and REDUCE the RISK of Injury by
LISTENING To the TRAINING and
following the correct PPE usage

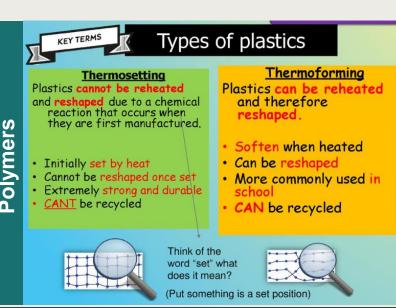
- Hair must be tied up in the workshop
- Blazers and ties must be removed
- Jewellery must be removed
- Only use machines you have been told to use and have been demonstrated to you
- Ensure you know where the emergency stop button is
- Do not eat or drink in the workshop
- No running

Symbols to recognise



Input	Function	Use
Light- dependent resistor (LDR)	The resistance changes as the light level changes, and the change in resistance can be used as an input Solar garden lights a street lighting	
Thermistor	The resistance changes as the temperature changes, and the change in resistance can be used as an input	Fridges, central heating systems and freezers to maintain temperatures
Process	Function	Use
Switch	A switch can either allow or prevent electrical power from flowing round a circuit	Any device that needs power to be turned on and off
Resistor	To limit the flow of current - they are made to restrict current flow in varying degrees (resistance)	It helps control the flow of current and protects delicate components from being overloaded
Output	Function	Use
Speaker	Uses pulses of electricity to move an electromagnet that vibrates to create sound Headphones and races and races are sound	
Light-emitting diode (LED)	- ΙΔΙΛηΛ-ΙβετίηΛ ΙΛΙΛ-ΝΛΙΜΕΓΙΙΛήΤ Ι · · · · · · · · · · · · · · · · · ·	
	Wire strippers: Remove the plastic coating from the wire to expose the wire to attach with soldering to other components Solder- using a soldering iron it	

attaches two components together



JIG: A production aid to make sure that every time the material is shaped to the same angle

CAM

Computer Aided Manufacture

Laser cutter

Laser cutting works by directing the output of a high-power laser The focused laser beam is directed at the material, which then cuts the material leaving an edge with a high-quality surface finish. In school we mainly cut and engrave on Plywood and Acrylic





The steps in any system





Knowledge Goals: Technology - Electronics

		Half Term 4: Tier 3 Vocabulary
#	Key word	Definition
1	Solder	A metal alloy used to bond metal components on circuit boards. It is melted in place using a Soldering Iron, which heats up the solder to about 250°C. Solder then melts around the components and returns to a solid very quickly after the Iron has been removed.
2	Light Emitting Diode	The Light Emitting Diode (LED) is a semi conducting component that emits light when an electrical current passes through it.
3	Resistor	A Resistor is an electronic component that restricts the flow of electricity within a circuit. This allows other components that require a specific amount of electricity to work and not be damaged with too much current.
4	Thermoforming and Thermosetting polymers	Polymers (plastics) can be split into two categories - thermoforming, which can be moulded repeatedly when heated and thermosetting, which is formed and set in shape for good. No amount of heat can remould it.
5	CAM – Laser cutter	Computer Aided Manufacturing is the process of using software and automated machinery to manufacture products. The Laser Cutter cuts or etches onto wood or acrylic based on the design in the software.
6	Jig	A device that holds a product and allows the tool in use to be used in a specific area, such as drill holes or shape formers
7	Current	The flow of charged particles through wires or electrically conductive material that allows devices or simple electrical components to be powered up.

Notes:	

Knowledge Goals: English

	You Concept	Definition
What is travel writing?	Key Concept	Definition
Travel writing is <u>non-fiction</u> (real life) writing that describes travelling and visiting different parts of the world.	Anecdote	A short, amusing story about a real incident or person.
and the first time and time and the first time and	Expanded noun phrases	A phrase made up of a noun and at least one adjective.
Where would you find travel writing? Travel writing can take the form of newspaper/magazine	Connectives	A word or phrase that links two parts of a sentence together. Can also be used as a sentence opener to connect two parts of a text.
articles, blogs, journals, tourist guides or even whole	Main clauses	Part of a sentence that can stand on its own, like a full sentence.
books.	Subordinate clauses	Part of a sentence that cannot stand on its own but adds extra information. Must be separated by commas.
What does good travel writing look like? 1. Personal account	Narrative	Story. Even non-fiction writing needs a narrative thread (a story that connects things together).
2. Anecdotal	Sub-narrative	A section of narrative that runs alongside the main narrative thread like a less important story.
A hook – put questions in the reader's mind Strong Narrative thread	Quotation	Words taken from another person or text and copied into your work. Must be separated by "quotation marks."
Quotations Avoid clichés	Personal pronouns	I, you, he, she, it, we, they, me, him, her, us, and them
7. Be natural 8. Interesting nuggets	Pertinent information	Information that is necessary.
9. Economical 10. Pertinent	Paragraphing	A section of a text on a certain topic. Miss a line before and after a paragraph.
11.Cinematic – evocative 12.Off-the-beaten-track	Topic sentence	A sentence at the start of a paragraph that tells the reader what the paragraph is about.
13.Detail, detail, detail	Rhetorical devices	Techniques used to persuade (AFORREST).
14.Show, not tell 15.Emotive (Awe is an emotion)	Show, not tell	Describing only action when writing instead of telling us thoughts and feelings.
16.Plausible	In media res	Starting in the middle of the action

Con	nectives	
after although as because before for however if in case since that though till		unless until when whenever whereas wherever which while whilst who whoever whose
A	Alliteration	
F	Facts	Y
0	Opinion	
R	Rhetorical question, repetition	
E	Exaggeration (hyperbole), emotive language	
5	Statistics	
т	Triple (list of three)	

Knowledge Goals: English

	Half Term 4: Tier 3 Vocabulary		
#	Key word Definition		
1	Declarative	A sentence that functions as a statement ('My name is' etc).	
2	Interrogative	A sentence that functions as a question.	
3	Exclamative	A sentence that functions as an exclamation ('look at that!' Etc).	
4	Imperative	A sentence that functions as a command.	
5	Colloquialism	A dialect, non-standard, word or phrase.	
6	Irony	a type of usually humorous expression in which you say the opposite of what you intend.	

Notes:

Knowledge Goals: Food Technology

Seasonality and Food Miles

What are seasonal foods?

Seasonal food is the time of year when food is at its best, in terms of flavour or harvest.

Many foods are available all year, as they are imported from other countries.

When local seasonal food is available it tends to be fresher and cheaper there has been less travel/storage from farm to fork.

Food - a fact of life 2012



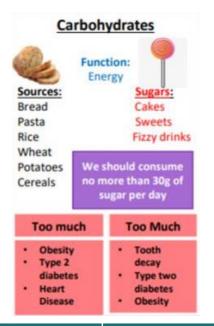
Micronutrients Needed in **small amounts** to help the body function properly

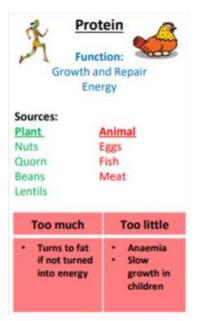
Vitamin	Food Sources		
Vitamin A	Carrot, sweet potato, milk, eggs		
Vitamin B complex	Whole grains, legumes, nuts and seeds, meat, eggs, dairy		
Vitamin C	Citrus fruits, strawberry, bell peppers, tomatoes		
Vitamin D	Fatty fish, fish liver oil, egg yolk, mushrooms		
Vitamin E	Wholegrain foods, nuts and seeds, avocado		
Vitamin K	Green leafy vegetables, broccoli, cauliflower, cabbage, meat, fish, eggs		

Macronutrients Needed in large amounts to help the body to function properly



Plant food







Vegetarianism



Plant food

Types of Food Poisoning Food poisoning comes from many sources,

including bacteria, viruses, and fungi.



contamination

unwashed produce



unhygienic kitchen



Food Poisoning



pain





Nausea

Vomiting

Knowledge Goals: Food Technology

	Half Term 4: Tier 3 Vocabulary		
#	Key word	Definition	
1	Nutrient	A substance that provides nourishment essential for the maintenance of life and for growth	
2	Fibre	Dietary fibre is plant material that cannot be digested by the human body. Dietary fibre helps the digestive system to move food through the intestines and push the waste material out of the body.	
3	Paste	A combination of a ground, mashed, or pureed food ingredient and some type of liquid.	
4	Seasonality	Seasonality of food refers to the times of the year when a given type of food is at its peak, either in terms of harvest or its flavour.	
5	Food miles	The distance food has travelled to get to your plate. Food must travel from the farm it is grown on or the factory it is made in to a supermarket or shop to be sold	
6	Marinade	A mixture of oil, wine, spices, or similar ingredients, in which meat, fish, or other food is soaked before cooking in order to flavour or soften it.	
7	Vegetarianism	The practice of not eating meat or fish, especially for moral, religious, or health reasons.	

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Knowledge Goals: French

Mots

Je vais à Paris. Pour combien de temps? les vacances

Quand? le vais passer une semaine à Paris.

Il/Elle va à Paris du ... au ...

juillet août

Comment y vas-tu?

J'y vais ... en avion en car en ferry en train à vélo en voiture Pourquoi? parce que c'est ... confortable

intéressant

moins cher

pratique

rapide

I am going to Paris.

For how long?

holidays When?

I am going to spend a week in Paris.

He/she is going to Paris from ... to ...

July August

How are you going?

I am going ... by plane by coach by ferry by train by bike by car

Why? because it is ... comfortable interesting practical fast

good value

A Paris

le vais voir ... la gare du Nord

la tour Eiffel l'Arc de triomphe le musée du Louvre la Grande Arche de la Défense

le Centre Pompidou

le Sacré-Cœur

l'avenue des Champs Élysées la Cité des Sciences

et de l'Industrie la Seine

ce matin cet après-midi

ce soir aujourd'hui

Prenez le métro

la ligne direction ... changez à ... descendez à ...

un carnet de tickets

In Paris

I am going to see ... the main station for trains from the UK the Eiffel tower

the Arc de Triomphe the Louvre museum the big arch at

La Défense

Pompidou centre-(a library and cultural centre)

the cathedral of the Sacred Heart

Champs Élysées

the museum of Science and Industry the river in Paris this morning

this afternoon this evening today

Take the metro

line in the direction of ... change at ... get off at ... book of 10 tickets

ou'est-ce que tu as fait? What have you done? I bought

postcards

souvenirs

the Eiffel tower

the mime artists

the paintings

the sights

I saw ...

raj acheté ... des cartes postales des souvenirs l'ai vu ---

la tour Eiffel les peintures les artistes de mime

les monuments

où es-tu allé(e)? le suis allé(e) ... le suis rentré(e) ...

aller

Where have you been? I went ...

I went back/ returned ...

Des verbes utiles Some useful verbs

to go I go ie vais je suis allé(e) I went

to play jouer I play ie joue I played i'ai joué

faire

je fais j'ai fait

Voir je vois

j'ai vu

acheter j'achète

j'ai acheté

to do/make

I do I did/made

to see I see Isaw

to buy 1 buy I bought

Knowledge Goals: French

Half Term 4: Tier 3 Vocabulary

#	Key word	Example
1	Connective	Et, aussi, mais, car, parce que, par contre, cependant
2	Opinion Verbs	J'aime, j'adore, je préfère, je n'aime pas, je déteste
3	Justifications	parce que / car c'est / ce n'est pas
4	Qualifier	un peu, assez, très, vraiment
5	Adjective	Intéressant, rapide, confortable, pratique, barbant, ennuyeux, lent, cher
6	Time Phrase	Ce matin, cet après-midi, ce soir, aujourd'hui, le week-end prochain
7	Tenses	Past - J'ai visité / j'ai mangé / j'ai acheté / j'ai bu / j'ai vu / j'ai fait / je suis allé / c'était Present - Je vais / je mange / je fais / je bois / je joue Future - Je vais aller / je vais visiter / je vais faire / je vais manger Conditional (would) - je voudrais + verb



Knowledge Goals: Sleeping Giant Awakens - ASIA





The Regions in Asia

Southeast Asia – countries rely mainly on agriculture. They export rice and other foodstuffs, and also have rubber industries.

Central Asia – overall, these countries are not rich, and Central Asia has several large, sparsely populated countries like Kazakhstan and Turkmenistan. These countries do have oil, gold and minerals they are starting to exploit.

Western Asia, including the Middle East – this area includes many of the world's Arabic speaking nations. Has a large share of the world's oil and gas reserves, which has made some nations (e.g. Qatar) extremely rich. Dubai has the Burj Khalifa – world's tallest skyscraper.

Eastern Asia – main industrial area. China is the most populous country in the world; and is known for its exports, particularly electronics for the home. Japan is technologically advanced and has the world's highest life expectancy. North and South Korea are here.

South Asia – overall, the poorest region. India is the world's second most populous country and is a Newly Emerging Economy with a significant service industry. Exports from South Asia include textiles and foodstuffs, e.g. Bangladesh is known for its textiles industry

Northern Asia - dominated by Russia, largest country in the world by area. Russia sells oil and gas to other countries by pipeline, and is mostly sparsely populated. Some parts of Russia, e.g. Siberia, are very cold. Russia also has a coastline to the Arctic Ocean.

Physical Characteristics of Asia

. Asia contains some of the most extreme temperatures on the planet. The temperature has reached 53.9°c in Israel, and has been as low as -67.8 °c in Siberia, Russia. Asia has a mix of climate regions. Polar, subarctic, and temperate climates occur along the continent's northern and northeastern areas. Arid (dry) and highland (high areas – varied because temperature drops with altitude) zones are found in the continent's middle and south-eastern areas. A mix of grassland and tropical rainforest climates are found in the southern areas of

Asia's Ecosystems

Tundra – A cold region in the north where the ground is deeply frozen. Only the top layer thaws in the summer. Only small plants found here.

Taiga – coniferous forest, found between Tundra and Steppes. Long cold winters; short, hot and damp summers.

Steppes – large flat area of treeless grassland, characterised by low precipitation. Found in the middle of the continent. Hot summers and cold winters.

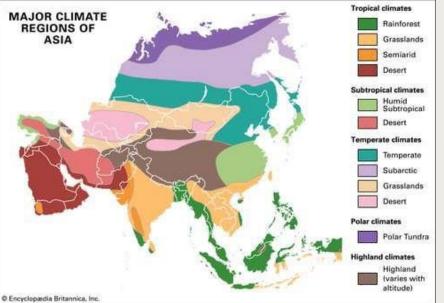
Temperate forest – region of deciduous trees. Found between Steppes and the coast. Hot summers and cold winters.

Cold desert – found north of the Steppes. Very dry. Summers are hot; but cloudless skies mean cold nights. Winters very cold (- 40°c). Little vegetation.

Hot desert – found south of the cold deserts. Usually very hot during the day and cold at night. Little vegetation.

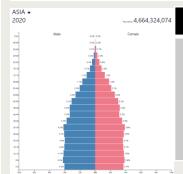
Mountainous – temperature falls with altitude, so the higher you go the colder it gets. At high altitudes trees no longer grow and there are glaciers.

Warm moist forest – furthest south, in and near the tropics. Includes tropical rainforests and mangrove swamps.



Growing Urban Population

In 2020, around 2.36 billion people across Asia lived in cities. The urban population across Asia was projected to increase continuously over the next years and is on track to reach an estimated 3.48 billion by 2050.



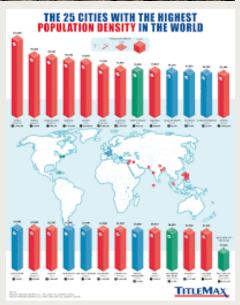
Population Structure

The 'make up' or composition of a population. Looking at the population structure of a place shows how the population is divided up between males and females of different age groups. The population structure is often shown in a population pyramid either showing percentage of the population in each group, or the total number of people in each age group.

The Palm Oil Issue

Southeast Asia is the centre of global palm oil production – with Indonesia and Malaysia producing around 85% of the world's supply. But oil palms did not arrive there until 1848, when Dutch botanists planted four seedlings in the botanic gardens in Bogor (then Buitenzorg) on the







Knowledge Goals: Sleeping Giant Awakens - ASIA



Half Term 3: Tier 3 Vocabulary

#	Key word	Definition
1	Gross Domestic Product	The total value of goods produced and services provided in a country during one year.
2	Newly Emerging Economy	Countries that have begun to experience high rates of economic development, usually with rapid industrialisation.
3	Population	All the inhabitants of a particular place.
4	Population density	Population density is a measurement of population per unit land area. It is mostly applied to humans, but sometimes to other living organisms too.
5	Natural resource	Materials from the Earth that are used to support life and meet people's needs. Any natural substance that humans use can be considered a natural resource. Oil, coal, natural gas, metals, stone and sand are natural resources.
6	Trade	The exchange of goods for money between producers and consumers. is the buying and selling of goods and services between different countries around the world. Goods that are brought into a country are called imports. and those that are sold to another country are called exports.
7	Social Development	Any improvement in the standard of living of people in a specific country. It includes factors related to money, such as wealth, which we call economic factors and factors related to people, such as literacy, which we call social factors.
8	Monoculture	The practice of growing one crop species in a field at a time. Monoculture is widely used in intensive farming
9	Natural Hazard	Extreme natural events that can cause loss of life, extreme damage to property and disrupt human activities.
10	Urbanisation	The increase in the proportion of people living in towns and cities. Urbanisation occurs because people move from rural areas (countryside) to urban areas (towns and cities).

Notes:

Year 8 Knowledge Goals – Industrial Revolution

1712—First steam engine invented.	1833, 1842, 1847	Factory Acts passed to control children's hours of work.	1856	Law passed to enforce all cities and counties to set up police forces.
1759—Wedgwood company is founded. 1764—Invention of the Spinning Jenny.			1870, 1880, 1899	Education Acts made education compulsory (1880) and free (1899)
1771—Arkwright's first factory opens.		The Great Exhibition showcased		for working-class children.
1776—US Declaration of Independence.	1851	Britain's industrial successes.	4007 4004	Western and the second
1829—Rainhill (locomotive) Trials. 1876—Patent granted for the telephone.			1867, 1884	Working men given the vote.

What was the Industrial Revolution?

Industrial Revolution, in modern history, is the process of change from an agrarian (farming) economy to one dominated by industry and machine manufacturing. These technological changes introduced new ways of working and living and fundamentally transformed society.

What was life like during the Industrial Revolution?

Housing:

Poor quality housing: houses were built very close together so there was little light or fresh air inside them. They did not have running water and people found it difficult to keep clean. Houses often suffered from damp due to their thin walls and roofs made out of cheap materials. Many households had to share a single outside toilet that was little more than a hole in the around.

Children:

Parish apprentices: orphans from workhouses were "apprenticed" to factory owners, supposedly to learn the textiles trade. They worked 12-hour shifts, and slept in barracks attached to the factory in beds just vacated by children about to start the next shift. Children were often chosen to perform the most dangerous jobs because they were smaller and able to get under machinery.

They were employed as machine cleaners, in mines, chimney sweeps.

Factories: Long working hours: normal shifts were usually 12-14 hours a day, with extra time required during busy periods. Workers were often required to clean their machines during their mealtimes.

Low wages: a typical wage for male workers was about 15 shillings (75p) a week, but women and children were paid much less, with women earning seven shillings (35p) and children three shillings (15p). For this reason, employers preferred to employ women and children. Many men were sacked when they reached adulthood; then they had to be supported by their wives and children. □ Cruel discipline: there was frequent "strapping" (hitting with a leather strap). Other punishments included hanging iron weights around children's necks, hanging them from the roof in baskets, nailing children's ears to the Tablenand dowsing them in water butts to

keepatherofaveste water: people could get water from a variety of places, such as streams, wells and stand pipes, but this water was often polluted by human waste. Pollution: coal was used to heat houses, cook food and heat water to produce steam to power machines in factories. The burning of coal created smoke, which led to terrible pollution in the cities.

Overcrowding: due to large numbers of people moving to the cities, there were not enough houses for all these people to live in. Low wages and high rents caused families to live in as small a space as possible. Sometimes whole families lived

in one room.

What progress was made during the Industrial Revolution?

Public Health

- Edwin Chadwick set up Boards of Health in cities across Britain to investigate the cleanliness and hygiene of towns. He sent teams of doctors out around the country to figure out what was causing disease. He then wrote a report to the government that recommended cleaning up the streets!
- John Snow discovered the cause of cholera. He realised that people who were getting sick were all using the same water pump. When the water pump was shut off, cholera stopped. Snow realised it was contaminated water.
- Joseph Bazalgette solved the problem

Transportreat Stink by designing and

- Dearling 13Akm of severs under london iman and channel of still water.

 Canals were used to transport heavy goods such as coal and steel to factories. They were quicker and more efficient than using horse drawn methods on roads.
- Railways locomotives were invented from as early as 1804 but the first use of widespread passenger train services was in 1829-30. Railways connected towns all over Britain and allowed for better trade but also for people to go on holiday!
- Roads Turnpike Trusts were formed to improve Britain's roads – they charged a toll to travel on them and the

Inventions

- Richard Arkwright invented the water frame to speed up textile production.
- James Watt designed a steam engine that moved a wheel – steam could now be used to power machines.
- George Stephenson designed the first steam locomotive (engine)
- Michael Faraday discovered how to generate electricity.
- Charles Babbage designed the first 'computer' – a machine that could perform calculations.
- Isambard Kingdom Brunel was a master engineer who designed and built the Clifton Suspension bridge and the Great

Western Railway.

<u>Medicine</u>

- Louis Pasteur discovered germs were living things and heating would kill bacteria.
- Florence Nightingale was a nurse during the Crimean war. She advocated for cleaning the wards, washing hands and improving the cleanliness of wards. Death rates fell from 40% to 2%.
- Edward Jenner invented the first vaccine. He realised milk maids did not get Smallpox because they had already been exposed to cow pox.
- Joseph Lister realised that his patients were dying due to infection. He trialled using carbolic acid as an antiseptic and spraying all instruments with it. This massively reduced infection and led to



Knowledge Goals: History Industrial Revolution



Half Term 1: Tier 3 Vocabulary				
#	Key word	Definition		
1	Agriculture	the practice of farming, including preparing of the soil for the growing of <u>crops</u> and the <u>rearing</u> of animals to provide food, wool, and other products.		
2	Factory	a building or group of buildings where goods are made or assembled mainly by machine.		
3	Industrialisation	a transformation away from an agricultural- or resource-based economy, toward an economy based on mechanised production.		
4	Labour	work, especially physical work.		
5	Invention	An invention is a unique or new method, idea or process. An invention may be an improvement upon a machine, product, or process for increasing efficiency or lowering cost. It may also be an entirely new concept.		
6	Urbanisation	population growth in urban areas instead of rural ones.		
7	Working Class	the social group made up of people who are employed in <u>unskilled</u> or <u>semi-skilled</u> manual or industrial work.		
8	Cholera	an infectious and often fatal disease, typically contracted from infected water supplies.		
9	Contamination	the action or state of making or being made impure by polluting or poisoning.		
10	Transport	a system or means of moving people or goods from place to place.		

Notes:

Knowledge Goals: Technology - Materials

Wood Joints

Finger	Half-Lap	Half-Lap Mitre	Butt

Scales of production



One off production – These products are expensive at cost price, sometimes bespoke, and often take a long time to make and cost of materials & labour are high. Many prototypes are 'one off products'.

Batch production – these products are identical and produced in small batches, daily, weekly, monthly or when needed. They can range in cost priced. Production normally runs from between 2 - 10k.

Mass production – These products are produced in very high volumes, 10k +. They are normally products that are in high demand and can range in expense, cars are a good example.

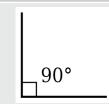
Continuous production – These items are normally very cheap to but make and could be considered 'throwaway'. These factories are often found in developing countries where land for factories and equipment are cheaper.

Just in time production (JIT) – This scale of production relies on the product been manufactured to a time schedule. This allows raw materials to be delivered at an exact time for production and then manufactured and are shipped straight to distribution /retailers. Apple INC uses JIT production.

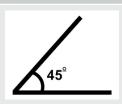
<u>Plan of Manufacture:</u> The steps to manufacture the product in order inclusing health and safety and Quality Control

Maths

90 degrees



45 degrees



Saws

Tenon Saw For straight lines



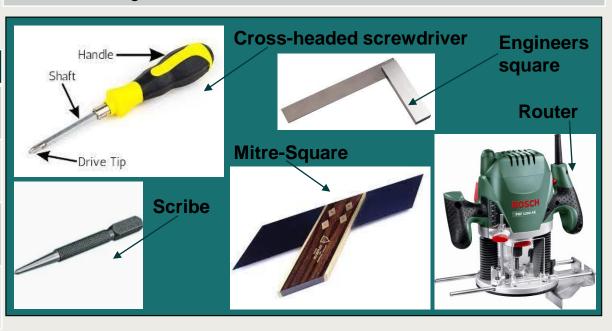
Mitre Saw Sawing 45 degrees



Health and Safety

It is really important we ASSESS the RISK and REDUCE the RISK of Injury by LISTENING To the TRAINING and following the correct PPE usage

- Hair must be tied up in the workshop
- Blazers and ties must be removed
- Jewellery must be removed
- Only use machines you have been told to use and have been demonstrated to you
- Ensure you know where the emergency stop button is
- Do not eat or drink in the workshop
- No running



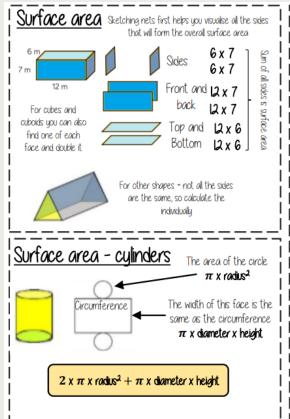
Knowledge Goals: Technology - Materials

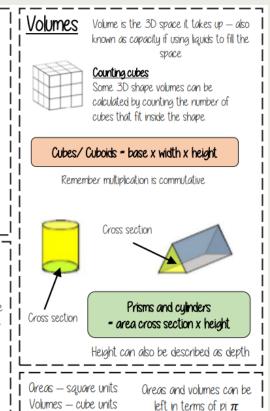
	Half Term 4: Tier 3 Vocabulary				
#	Key word	Definition			
1	Half-Lap Mitre Joint	A half lap joint involves joining two same-sized pieces of material by removing half the thickness of each piece where they connect. A half-lap mitre joint means the front of the pieces are mitred at 45 degrees			
2	Scales of Production	The scale of production refers to the volume or quantity that a product will be produced at			
3	Criteria	A standard by which something may be judged or decided if successful			
4	Mitre	a joint made between two pieces of wood or other material where they are cut at 45 degrees so when put together make 90 degrees (a right angle)			
5	Tenon saw	A hand cutting tool that is suitable for straight lines			
6	Router	A router is a tool that's used to make cuts or "hollow out" a piece of wood, plastic, MDF, or even, in some cases, metal. A router can cut grooves, make fancy edges, or help you cut patterns.			
7	Mitre square	A marking out tool used in woodworking and metalworking for marking and checking 45 degree angles			

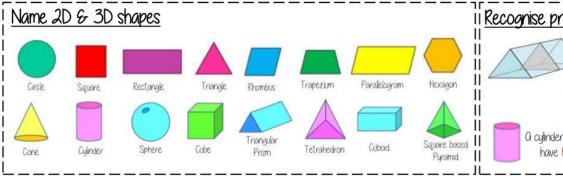
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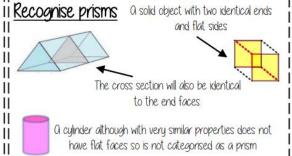
Knowledge Goals: Maths

Unit 7 – 3D Shapes				
Topic	Video	Resource		
Naming and Properties of 3D shapes	Watch this And this	Complete this Check your work		
Surface area of cube/cuboid.	Watch this	Try this Check your work		
Volume of cube/cuboid.	Watch this	Complete this Check your work		
Volume of a prism	Watch this	Complete this Check your work		
Cylinders	Watch this	Complete this Check your work		









Knowledge Goals: Maths

Half Term 4: Tier 3 Vocabulary			
#	Key word	Definition	
1	Vertex	a point where two or more line segments meet	
2	Edge	a line on the boundary joining two vertex	
3	Face	a flat surface on a solid object	
4	Cross-section	a view inside a solid shape made by cutting through it	

Notes:
•••••
•••••

Knowledge Goals - Music



Foley Studio

Click this link to learn about Foley Sound

https://www.youtube.com/watch?v=U _tqB4IZvMk





PRESENT A CONVINCING PORTRAYAL OF TIME AND

Pick a music genre that fits your story's time or setting. This will help suspend disbelief, making your film more compelling.

REPRESENT UNSPOKEN THOUGHTS OR UNSEEN IMPLICATIONS.

The anxiety-inducing buildup before an attack in Jaws, the unsettling Darth Vader march each time the villain appears—in these cases, music acts as a cue that something bas is coming.





FILL AWKWARD SILENCES.

To avoid unnatural silences, fill gaps in dialog and similar situations with neutral music. This type of music should complement the scene, but generally go unnoticed.





Key term	Definition	Example
Diegetic	Diegetic sound is any sound that the character or characters on screen can hear.	Dialogue, live music in the film, sound effects e.g., rain, banging a drum etc
Non-diegetic	Non-diegetic sound is any sound that the character or characters on screen cannot hear but the audience can.	Narration, background music etc
Dissonance	A combination of two (or more) tones/notes of different pitches that clash or sound jarring. Chromaticism creates dissonance.	Middle C and the C sharp above (a minor second).
Consonance	A combination of two (or more) tones of different pitches that results in a musically pleasing sound.	Playing a major C chord would sound consonant as the notes fit together to make a nice sound.
Soundtrack	A soundtrack is recorded music accompanying and synchronised to the images of a motion picture	Any music that accompanies a film or image on screen is a soundtrack
Underscore	An underscore is a soft soundtrack theme that accompanies the action in a performance.	Any music that is in the background of a film, generally non-diegetic music to create atmosphere.
Mickey-mousing	A technique that synchronises the accompanying music with the actions on screen. Matching movement to music.	Tom & Jerry actions and sound synchronised.
Leitmotif	A short, recurring musical phrase associated with a particular character, place, or idea.	Jaws' leitmotif plays when the shark is nearby.
Atonal	Atonality is simply the absence of tonality or key signature. The opposite of tonal music that has a key	Sci-fi films often use atonal music for outer-space scenes or magical scenes.
Montage	Different scenes or images put together in quick succession to portray a story or scene changes in a film or to look back on the past.	Scene from the film Up where clips are shown of Ellie and Carl's life together https://youtu.be/F2bk_9T482g

Knowledge Goals: Music

How are the elements of music used in the clips below?

	Year 8 Spring term Knowledge Organiser for Music	
	How the Elements of Music are used in Film Music	Film Music Composers
Key Term	Definition	John Williams
Melody/Pitch	 Rising or ascending melodies/pitches are often used for increasing tension, Falling or descending melodies/pitches for defeat. Westerns often feature a big theme. 	Star Wars Jaws Harry Potter
	 Question and answer phrases can represent <u>good versus evil.</u> The interval of a fifth is often used to <u>represent outer space with its sparse sound.</u> 	Hans Zimmer The Lion King Gladiator
Articulation	Legato (smooth) for flowing or happy scenes. Staccato (detached) for 'frozen' or 'icy' wintery scenes. Accents (>) for violence or shock.	Dunkirk Danny Elfman
Dynamics	Forte to represent <u>power</u> Piano to represent <u>weakness/calm/resolve</u> . Crescendos used for <u>increasing threat, triumph or proximity</u>	Mission Impossible Men In Black Spiderman
Dynamics	 Diminuendos used for things going away into the distance. Horror Film soundtracks often use extreme dynamics or sudden dynamic changes to shock the listener. 	James Horner Titanic Star Trek II
Texture	 Thin/sparse textures for <u>bleak, lonely scenes.</u> Thick/full textures for <u>active scenes of battles.</u> 	Apollo 13
Harmony	Major to represent <u>happiness</u> . Minor to represent <u>sadness</u> . Consonant harmony for <u>good</u> . Dissonant harmony for <u>evil</u> .	Alan Silvestri Back to the Future Forrest Gump Castaway
Rhythm/Metre	 2/4 or 4/4 for Marches (battles) 3/4 for Waltzes, 4/4 for "Big Themes" in Westerns. Irregular Time Signatures used for tension. Ostinato (repeated pattern) rhythms for repeated sounds e.g. horses. 	Michael Giacchino The Incredibles Star Trek (2009) Up!

<u>Indiana Jones – The Rope Bridge</u>

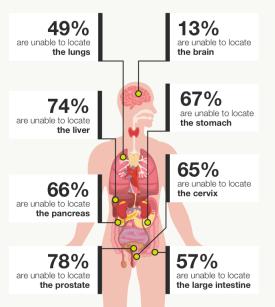
<u> Star Wars – Imperial March</u>

How Music Affects a Film

How does the music change how we perceive each of the clips?

Risks from Smoking Smoking can damage every part of the body Chronic Diseases Cancers Stroke Head or Neck Blindness Gum infection Lung . Aortic rupture Leukemia e · Heart disease Pneumonia Stomach . Hardening of the arteries Pancreas . Chronic lung disease & asthma Reduced fertility Hip fracture





Knowledge Goals: PDev



Did you know? - 10 cancer facts

ased on research avoiding synthetic chemicals in

cosmetics, cleaning and personal care products car reduce your chance of getting breast cancer. Many

inthetic chemicals have been linked to health

s to increase risk of breast cancer

Leukaemia. Lymphoma, and Central Nervous System Tumour

common forms of childhood

cancer. Set an example for your kids. Avoiding stress, eating we

and getting regular exercise can

for mum and baby:

9 Over 2 million cases of skin cancer are

'normal' for you. And if

diagnosed every year. Many of these are preventable through simple precaution

Avoiding indoor tanning and protecting

Breastfeeding longer will give your child a stronger

immune system for life

hemicals (EDCs), which can interfere with

There's no single food that can prevent or fight cancer. But to help lower your

risk of cancer, start consuming a balanced plant-based diet. Ensure

you're eating a variety of vegetables. fruits, soy, nuts, whole grains, and beans

indometrial cancer

3 Research shows that regula exercise helps to keep your

high levels of some

ormone levels at a healthy

4 cancer is responsible for roughly a

related to smoking. So if you

5 Prostate cancer features among the top three most commonly diagnosed

Selenium: Vitamin E: Lycopene

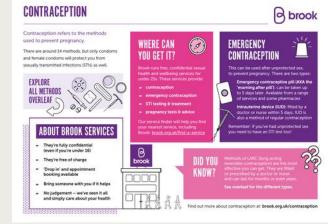
cancers in men. Dietary suppleme that can decrease its risks include:

smoke, quit smoking

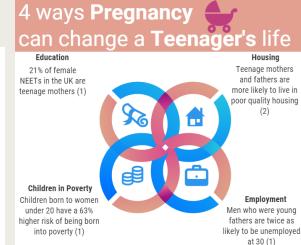
quarter of cancer deaths in the

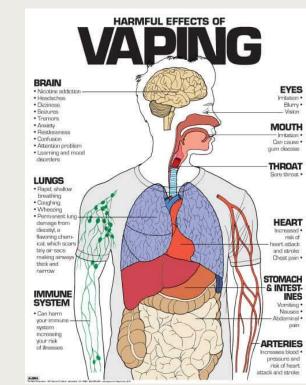
2 Maintaining a healthy weight through regular physical activity can reduce your risk of cancer. But

there is also evidence that physica activity reduces risk of bowel cancer; breast cancer; and









Knowledge Goals: PDev

		Half Term 4: Tier 3 Vocabulary	Notes:
#	Key word	Definition	
1	Vaping	breathing in a steam-like fume designed as a replacement for tobacco smoking, still containing nicotine in many cases.	
2	Smoking	breathing in smoke from a cigarette, cigar or roll-up (usually for tobacco smoke) or, spliff, joint or bong (usually for cannabis) to gain pleasure from the chemicals.	
3	Cancer	A disease caused by an uncontrolled division of abnormal cells in a part of the body.	
4	Genetic predisposition	increased likeliness relating to genes or heredity. A person may be more genetically pre-disposed to certain cancers due to the genes they inherited from their parents.	
5	Personal safety	your level of protection from potential harm. This is what you consider to ensure you minimise or prevent risks to yourself.	
6	First aid	the essential basic medical skills we need to help others who are hurt in times of emergency. These skills are often used whilst waiting for health professionals to arrive.	
7	Teenage Pregnancy	When a girl aged 13-19 gets pregnant. However, when people talk about 'teen mothers' they are usually talking about ages 12-17. Pregnancy can happen as early as 9, however.	
	004 01-11-1	the same to a halman common manager for the theory and a City of the	



Knowledge Goals: PE



Badminton

- □ **Serving** I know the rules concerning service areas .I can perform both the Backhand and Forehand serves over a modified net.
- ☐ The Clears I can hit the shuttle high and with power over a modified net.
- ☐ The Drop Shot I can land the shuttle towards the front of the court, over a modified net.
- ☐ The Smash I can perform the smash using good technique and clear the modified net.
- □ Net Play- I show good technique and land the shuttle close to the net.
- ☐ Game Play I am able to score correctly during a game



Hockey

- ☐ Ball Control I consistently use the stick to control the ball at increasing speeds and demonstrate changes of direction and pace in my work.
- □ Passing I can assess the technique of others and can offer assistance to improve technique. My reception position is low providing a "long bar" to stop the ball.
- □ **Dribbling** I can move with the ball in front of me either using short taps or rolling the ball with increasing speed.
- ☐ Tackling I can increasingly use the block tackle effectively in structured practice to breakdown another player's control of the ball.
- ☐ Game Situations I take advantage of taking free hits quickly to help my team gain ground up the pitch.

Football



- ☐ Ball Control I can control the ball comfortably with my feet and use other body parts but not always with control.
- □ Passing I can pass the ball accurately using my inside foot □ Jumps I can perform flight movements (pike & while not under pressure over a moderate distance.
- □ **Defending** I can *pressure* an opponent quickly and successfully tackle them in a 1v1.
- □ **Dribbling** I can dribble the ball with control when it is close to me and not under pressure.
- ☐ Shooting I can accurately shoot from a moderate distance using the inside of my foot.
- ☐ Game Situations I move into space in games and communicate with teammates and can maintain possession for short periods when the ball is at my feet.



Netball

- ☐ Passing I am able to pass the ball accurately using a chest, shoulder and bounce pass and identify what pass should be selected for certain situations.
- ☐ Footwork I am able to demonstrate a good pivot technique when catching the ball and looking for my next pass.
- ☐ Attacking skills I can change direction to create a space to receive the ball.
- ☐ **Defending skills** I am able to mark a player with a ball demonstrating a knowledge of the rules; i.e. a 3 foot mark.
- ☐ Game Situations I can demonstrate an understanding of both an attacking and a defending position and where all positions can go on the court.

Gymnastics

- ☐ Floor I can perform an individual 6-8 action sequence including a variety of balances and linking movements, showing control and tension.
- straddle) from the springboard or trampette.
- ☐ Apparatus I can perform an astride, through vault and a neckspring off the end of the box.
- ☐ Performance I can perform simple movements and balances as part of a pair.





Rugby

- ☐ Evasion/Support Play I understand the 2nd 'principle of play' - support and can demonstrate this during drills.
- ☐ Passing & Catching I can catch a ball on the move that is passed accurately to me and then pass it to a team mate holding depth in attack and moving onto the ball at pace I can perform a 'loop' pass and manipulating defences
- ☐ Tackling/Defensive Strategies I can tackle an opponent using the side tackle and front tackle at speed
- ☐ Rucks & Mauls I can form a ruck and maul to successfully secure possession.
- ☐ Game Play I understand the different positions and the attributes needed to perform them. I understand the setup of 3-man uncontested scrums.

Knowledge Goals: PE

Half Term 4: Tier 3 Vocabulary			
#	Key word	Definition	
1	Long Bar	Method of stopping the ball with the stick low parallel to the ground	
2	Free Hits	The "free hit" is awarded to a player when that person is fouled on the field of play by an opposing player.	
3	Block Tackle	In this type of tackle, a player can dispossess an opposing player by stopping the ball with their stick parallel to the ground.	
4	Flow	One movement flows seamlessly into the next	
5	Drift Defence	The defence goes "up and out" as a defensive line to pressure the opponents	
6	Magic Diamond	Lines of running for a "Diamond shape" attack system. The waves of players provide a number of different options.	



Badminton



Football



Hockey



Netball



Rugby Union

Notes:

Knowledge Goals: Physics - Work

Work done = force x distance moved in the direction of the force

WORK AND ENERGY

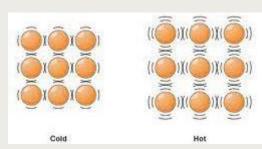
- When a force causes a body to move (or deform), work is being done on the object by the force.
- The amount of work depends on the size of the force and the distance the object moves (displacement).
- Work done = energy transferred



work done (J) = force (N)x distance moved (m)
 = 10 N x 2 m = 20 J

The reason why the lever makes the job easier is because the <u>lever reduces the effort</u> needed, since the <u>distance</u> through which the effort moves is larger.





	Conduction	Convectio	Radiation	
Diagra m			# This country of country for state of the country of the	
Needs particle s?	yes	yes	no	
How does it work?	Particles vibrate and collide.	Particles are heated and become less dense. Particles rise up. Particles become cooler and more dense.	Heat radiation is transferred as a wave from a hot object to a colder object.	
Explai	n how the gre	emiteves sinakes	it	
E eeersier	to tern the tar	Hather beston.	Heat from Augun	
answe	ris Miliubicinge	Hবাদান্ত চি e ঙ্গিংগ the words: wo	reaching the learth.	
force, distance, pivot.				

temperature on record

body

temperature

hot weathe

T-shirt and

temperature (approx.)

weather for

a fleece jacket 10°C

from the fridge

5°C freezing point of water 0°C

FIGURE 2.3.3a: A temperature scale

weather

Knowledge Goals: Physics - Work

	Half Term 4: Tier 3 Vocabulary		
#	Key word	Definition	
1	mechanical work	The energy shifted when a force moves an object through a distance.	
2	thermal energy	The hotter an object, the more energy it has in its thermal energy store. Thermal energy is measured in joules (J).	
3	temperature	How hot a substance is. Temperature is measured in degrees Celsius (°C) using a thermometer.	
4	conduction	The process of shifting energy through vibrating particles. The energy is shifted from a hotter region to a cooler region.	
5	convection	The process of shifting energy through the movement of particles in a fluid. In a fluid, hotter regions are less dense and will rise, whilst colder regions are denser and will sink.	
6	dissipated	Ways in which energy is shifted into less useful stores.	
7	insulation	Reduces unwanted energy shifts out of an objects thermal energy store to maintain the temperature of an object.	
8	conductor	Materials which transfer heat easily from a hotter area to a cooler place.	

Notes:

Knowledge Goals: Year 8 Christianity

Christianity is one of the world's major religions. It is the world's largest religion, with about 2.4 billion followers.

Christians (like Jews and Muslims) believe in one God, who created the world and all that is in it.

Christians believe in the teachings of Jesus Christ, who was a middleeastern preacher and healer who lived around 2,000 years ago.

Christians believe that Jesus Christ was sent down to earth to save people, by taking their punishment and dying on the cross.

The holy book in Christianity is called the Bible. A church is a building designed for Christian worship.



Christian Beliefs

God's Creation

- -Christians believe that God created the Earth and everything in it in 6 days, resting on the 7th.
- -The story of creation tells Christians that at first everything was dark, until God intervened and created matter.
- -Details about this are found in the Bible in Genesis 1 and

The Holy Trinity

- -Christians believe that God can be seen in three ways. known as the Holy Trinity:
- •-The Father Creator of the world;
- •-The Son Who came to Earth as Jesus:
- •-The Holy Spirit God's power within Christians

The Ten Commandments

- -In the Bible, ten 'commandments' are shared, which Christians should aim to live their lives by:
- 1. You shall have no other Gods but me. 2. You shall not make for yourself any idol. 3. You shall not misuse the name of the Lord your God. 4. You shall remember and keep the Sabbath day holy. 5. Respect your father and mother. 6. You must not commit murder. 7. You must not commit adultery. 8. You must not steal. 9. You must not give false evidence against your neighbour. 10. You must not be envious of your neighbour's goods.

The Life of Jesus Christ

- Christians believe that Jesus was the son of God. He was born to ordinary parents, Mary and Joseph, in Bethlehem. Christians celebrate the birth of Jesus on 25th December – Christmas Day.
- -Jesus travelled around, teaching people about God and helping the sick. He chose 12 men to travel with him. They were his special companions and are known as the disciples.
- -Jesus was sentenced to death for calling himself the son of God. He had a final meal with his disciples (known as 'The Last Supper') before being crucified. He is said to have died for the sins of man.

Answers to Important Questions

Where do **Christians worship** God?



-Christians can pray in any place, but the most common location is in a purpose-built building called a church. Churches can be very different - old, new, plain or highly decorated. Often, the floor plans of churches are shaped in a cross.

-Church services often include hymns, prayers, and readings from the Bible.

-Common church features include altar tables, lecturns, pulpits, fonts and stained glass windows

What is the Bible?



The Bible is the holy book of Christians. It contains the Old and New Testaments. The Old Testament is similar to the Jewish Bible and was written before Jesus' birth. The New Testament contains stories about Jesus, written by those who knew him.

How do Christians believe that people should live their lives



- -Christians believe that people should be compassionate to one another, and show respect to God, themselves and one another.
- -Christians believe that praying to God helps them to say sorry for the things that they have done wrong, and thank them for the blessings given to them.
- -Christians believe that God wants them to carry on the good work that Jesus did in the world.

How many different types of Christians are there?



There are many different denominations (types) of Christians. All Christians were once Catholics, but other groups branched off many years ago.

-The biggest Christian denomination is still Catholicism. To Catholics, the Pope is Christ's representative on earth. Other major groups include Protestants (including Anglican/ Church of England faiths) and Orthodox.

Top 10 Facts

- Christians believe that God is everywhere, and sees and knows everything.
- About 1/3 of the world's population are Christian
- The word Christ comes from the Greek word meaning Messiah - God's chosen one.
- Although Christmas is celebrated on December 25th, no one knows exactly what date Jesus was born on.
- people meet to worship on Sunday.

- 6. There is very little written about Jesus before the age of about 30, when he began preaching
- 7. Jesus knew that he was going to be betrayed, and that he would die. He tried to warn his disciples of this at the Last Supper.
- 8. Jesus was buried in a tomb, but the tomb was found later. He then appeared to the disciples.
- 9. Jesus eventually went back up to heaven to be with God - this is called the ascension.
- Sunday is the holiest day in Christianity many 10. The cross is the symbol of Christianity a reminder that Jesus was crucified.

Knowledge Goals: Year 8 Christianity

Term 3: Tier 3 Vocabulary		
#	Key word	Definition
1	God	The eternal, supreme being who created and preserves all things. Christians believe in a monotheistic conception of God, which is both transcendent (wholly independent of, and removed from, the material universe) and immanent (involved in the material universe).
2	Jesus	The man who Christians believe is the son of God and whose life, death, and resurrection as reported in the New Testament of the Bible are the basis of the Christian religion
3	Bible	The Christian scriptures, consisting of the Old and New Testaments.
4	Cross/Crucifix	A representation of a cross with a figure of Christ on it.
5	Holy Trinity	The three persons of the Christian Godhead; Father, Son, and Holy Spirit.
6	Disciples	A personal follower of Christ during his life, especially one of the twelve Apostles
7	Saints	A person acknowledged as holy or <u>virtuous</u> and regarded in Christian faith as being in heaven after death.
8	Ten Commandment s	A list of religious precepts that, according to various passages in Exodus and Deuteronomy, were divinely revealed to Moses on Mount Sinai and were engraved on two tablets of stone

Notes:
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•••••
•••••

Mis vacaciones Generalmente ... Normalmente ... me quedo en casa salgo con mis amigos por la noche vamos a la cafetería voy a España

Pero el año pasado ... fui a Cuba fuimos en avión fuimos a un restaurante italiano hice excursiones muy interesantes jugué al fútbol pinté

Normally ... I stay at home I go out at night with friends we go to the café I go to Spain But last year ... I went to Cuba we went by plane

we went to an Italian

interesting outings

restaurant

I played football

I went on very

My holidays

Usually ...

Buen viaje! ¿Adónde fuiste de vacaciones? Fui a Madrid. ¿Cómo fuiste? I went ... Fui ... on foot a pie by bus en autocar by plane en avión by boat en barco by bike en bicicleta by car en coche en monopatín by train en tren

I painted Have a good trip! Where did you go (to) on holiday? I went to Madrid. How did you go? by skateboard Last winter ... El invierno pasado ... El verano pasado ... Last summer ...

Knowledge Goals: Spanish

¿Adónde fuiste?	Where did you go (to)?
el año pasado	last year
Fui a	I went to
Alemania	Germany
Argentina	Argentina
Cuba	Cuba
Escocia	Scotland
España	Spain
Francia	France
Gales	Wales
Grecia	Greece
India	India
Inglaterra	England
Irlanda	Ireland
Italia	Italy
México	Mexico
Pakistán	Pakistan
Portugal	Portugal
República Dominicana	the Dominican

¿Con quién fuiste? Fui ... con mi familia con mis padres con mis amigos

Who did you go with? I went ... with my family with my parents with my friends

Republic

Cuánto tiempo How much time did pasaste allí? you spend there? I spent ... Pasé ... diez dias ten days una semana a week dos semanas two weeks un mes a month

¿Cómo fue? Fue ... estupendo genial guay aburrido horrible un desastre

What was it like? It was ... fantastic brilliant great, cool boring awful a disaster

What did you do? ¿Qué hiciste? I danced. Bailé. I had a rest/break. Descansé. I listened to music. Escuché música. Fui de excursión. Jugué al voleibol en la playa. Mandé mensajes. Monté en bicicleta. Saqué fotos. Tomé el sol.

¿Qué tal lo pasaste?

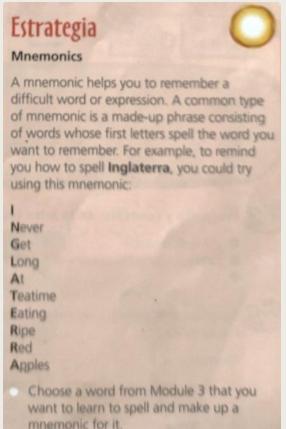
Visité monumentos.

¡Lo pasé bomba! ¡Lo pasé fenomenal!

¡Lo pasé quay! ¡Lo pasé bien! ¡Lo pasé mal!

I went on an outing. I played volleyball on the beach. I sent messages. I rode my bike. I took photos. I sunbathed. I visited monuments. What sort of time did you have? I had a fantastic time! I had a wonderful time! I had a great time! I had a good time! I had a bad time!

Palabras muy útiles Very useful words with con in, by en ¿cómo? how?, what ... like? ¿adónde? (to) where? who?, whom? ¿quién? ¿qué? what?



Knowledge Goals: Spanish

	Half Term 4: Tier 3 Vocabulary		
1	SSC	Symbol-Sound Correspondence: the sound that letters or combination of letters make in a language	
2	cognate	A cognate is a word which looks the same or very similar to a word in English. E.g.: el cine, el fútbol	
3	connective	A word which links sentences together. E.g.: and, but	
4	Opinion verb/ phrase	A verb or a phrase which you use to give an opinion: I like, I dislike, in my opinion etc	
5	Justifier	A way of giving a reason, a justification of an opinion. I like because it is	
6	qualifier	A word which changes the intensity of an adjective: quite, very, extremely	
7	adjective	A describing word: big, small, green, interesting, amusing etc	
8	Time phrase	A phrase used to say when something is happening: normally, on Mondays, yesterday, next weekend	
9	Tenses	Past, present, future, conditional	
10	Infinitive	A verb as you find it in the dictionary: to play, to eat. This is the form of the verb when it is not used with a pronoun (I, he, she)	

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Notes:	
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