100% book - Year 7 Grammar

Aim to memorise 100% of the knowledge on these Knowledge Organisers



Term 2

Swindon Academy 2025-26	
Name:	
Tutor Group:	
Tutor & Room:	

"If you are not willing to learn, no one can help you.

If you are determined to learn, no one can stop you."











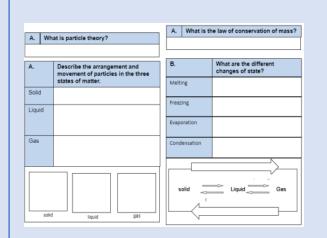
Using your Knowledge Organiser and Quizzable Knowledge Organiser

Knowledge Organisers

Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

They will help you learn, revise and retain what you have learnt in lessons in order to move the knowledge from your short-term memory to long-term memory.

Quizzable Knowledge Organisers



These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get someone else to test you, until you are confident you can recall the information from memory.

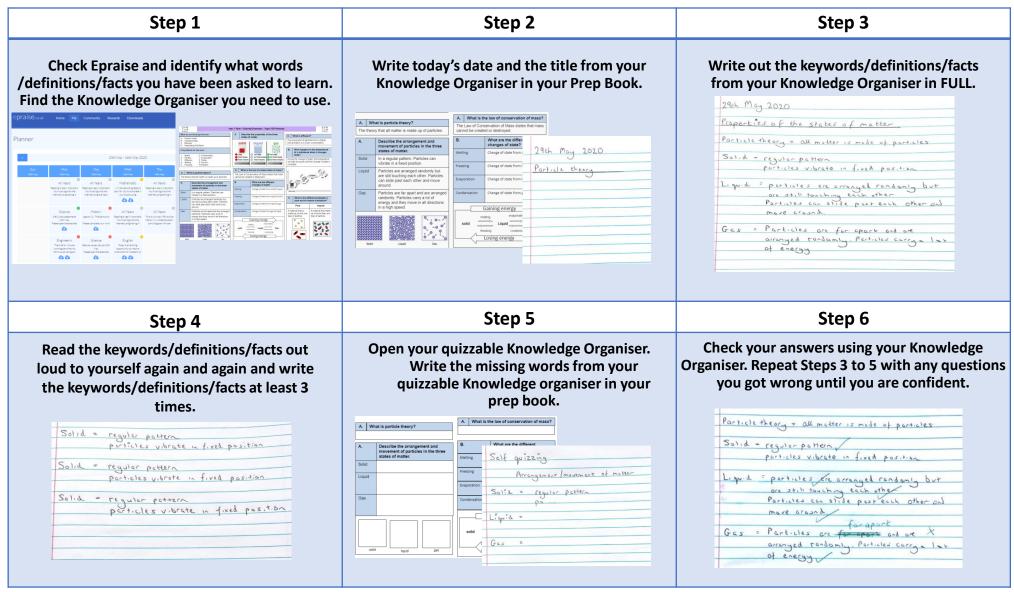
Top Tip

Don't write on your Quizzable Knowledge Organisers! Quiz yourself by writing the missing words in your prep book. That way you can quiz yourself again and again!

Expectations for Prep and for using your Knowledge Organisers

- 1. Complete all prep work set in your subject prep book.
- 2. Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
- Take pride in your prep book keep it neat and tidy.
- 4. Present work in your prep book to the same standard you are expected to do in class.
- 5. Ensure that your use of SPAG is accurate.
- 6. Write in blue or black pen and sketch in pencil.
- 7. Ensure every piece of work has a title and date.
- 8. Use a ruler for straight lines.
- 9. If you are unsure about the prep, speak to your teacher.
- 10. Review your prep work in green pen using the mark scheme.

How do I complete Knowledge Organiser Prep?



Make sure you bring in your completed Prep notes to demonstrate that you have completed your prep.

ENGLISH Knowledge organiser Year 7 'Oliver Twist': GS Knowledge Organiser

Plot Breakdown of Oliver Twist

What we are learning this term:

- An introduction to life in Victorian London An introduction to the life of Charles Dickens
- An introduction to the workhouse and the Poor Law
- The story and moral of Oliver Twist
- Key characters and quotations How to write a simple analytical paragraph

brutal - very violent or cruel.

- Vocabulary: Key Words
- morality a code of right and wrong. People who try to be
- good can be called moral and people who do bad things can be called immoral.
- moral a lesson that can be derived from a story or experience
- vulnerable in a situation in which you could be easily
- harmed. People living on the streets are vulnerable.

- barbaric cruel and wild
- exploit Taking advantage of someone to benefit from them.
- corrupt a word used to describe a person who uses their power in a dishonest or illegal way in order to make life better
- for themselves.
- villain a bad person in a story who harms other people or breaks the law to get what they want.
- malicious meant to hurt or upset someone.
- victim someone who has been harmed, often by other
- people.
- naïve If someone is naïve if they don't have experience of how complicated life can be and therefore trust people too much.
- society the people who live in a certain area. This could be a country, town or small group.
- workhouse a place where people who couldn't support themselves were sent to live and work. poverty - being extremely poor

Oliver is born in the workhouse. When he is a bit older he is nominated to ask for more food

Oliver is wrongly arrested for the theft.

and visits Mr. Brownlow to warn him.

and Bill dies trying to run away.

ever after.

a man like Bill?

back in case he reveals information about them.

Historical Context: Charles Dickens in the Victorian era.

In was published chapter by chapter in a periodical (magazine).

more workhouses and show how hard life was for poor people.

Corruption - Dickens presents corruption from the outset and throughout.

Powerless people corrupt others e.g., Dodger, Fagin & Bill

commentary on the perceptions of society at the time.

The Big Ideas in Dicken's Oliver Twist

Powerful people are corrupt e.g., Bumbles

This mirrors the childhood of Oliver and the other boys in the workhouse.

- because the boys are starving. He is kicked out of the workhouse and sold to the Sowerberry family to be an undertaker's
- apprentice. He's bullied by Noah, they fight and he is locked up.
- Oliver runs away to London, meets Dodger and is introduced to Fagin's gang.
- Oliver is taken out with the gang and is horrified to see Dodger steal a gentleman's handkerchief

The gentleman, Mr. Brownlow, takes pity on Oliver and takes him in. The gang plot to get him

Oliver is used by Sikes in a burglary. They fail and Sikes runs away. Oliver is left behind but the

When Bill and Fagin realise what has happened, they plot to catch Oliver again. Nancy overhears

Fagin tells Bill about Nancy's betrayal and Bill murders her. Fagin is discovered and sent to prison

Oliver discovers who his parents were and joins Mr. Brownlow and the Maylies to live happily

Charles Dickens had to work in harsh conditions as a child when his father was sent to prison.

Dickens wanted to criticise a new change to The Poor Law which happened in 1834 and created

Oliver Twist was written in the Victorian era. This means that Queen Victoria was the reigning

monarch at the time. Dickens lived and worked through this time period. The novel is a social

Villains' vs victims - Dickens juxtaposes the purest, most vulnerable and innocent of children

against the most violent, brutal and selfish criminal. However, he presents the characters of a

Crime - Dickens presents his reader with the realities of the criminal underworld of Victorian

scale of villainy. Is it just a matter of time before Oliver, if left unchecked, would deteriorate into

London. He shows the reader what the future often holds for destitute orphan children that are

He believed that just because people were poor, that didn't mean they deserved to be treated

like criminals. This directly links to Dickens' criticism of The Poor Law of 1834.

'Oliver Twist' was written in 1837-39. This is in the Victorian era by Charles Dickens.

people who live there feel sorry for him and look after him. They are called Fred and Rose

Oliver is abducted by the gang whilst running an errand for Mr. Brownlow.

- **Vocabulary: Subject Specific Terminology**
- characterisation the way a writer shows what a character is like

- irony figure of speech in which the intended meaning is the opposite
- of the literal meaning
- **novel** a novel is a long book that tells the story of imaginary people and events
- protagonist he main character antagonist - a character in a story who is the chief enemy of the

topic sentence – the first sentence of your analytical paragraph.

The corrupt man who runs the workhouse and gives Oliver his name.

An old man who runs the gang of pickpockets. He seems kind but his

- protagonist.
- Characters in Oliver Twist

Oliver He is a 'pale, thin' orphan who is treated badly by almost everyone he

meets. He tries his best to be a good person and experiences 'horror and alarm' whenever he sees crimes being committed.

- Mr. Bumble
- Noah Claypole
- A 'malicious' boy who bullies Oliver at the undertakers.

selfish nature as he gets young boys to do his dirty work for him. Jack Dawkins (The Artful Dodger)

- A young boy who introduces Oliver to Fagin's gang. **Bill Sikes**
- A 'rough man' who has been a criminal for many years. He beats his dog viciously and brutally kills his girlfriend, Nancy.

Nancy Bill's girlfriend who risks her life to help Oliver escape from the gang. She loves Bill even though he treats her abusively and she feels guilty

you can.

about the life of crime she has led.

Mr. Brownlow

A wealthy older gentleman who takes Oliver in and looks after him.

- Writing Analytically
- What three things must a topic sentence do? be accurate, focus on
- one thing, answer the question
- What is a quotation? a sentence or phrase copied exactly from what
- someone has said or written. To quote means to copy exactly what
- someone has said or written.
- abandoned by society. All children may end up like Dodger or Nancy, then like Fagin or even Bill. Poverty - Dickens wants to illustrate what life was really like for poor people in the Victorian era What do you do once you have written a topic sentence and matching quote? - explore how the quote proves the point in as much detail as

Historical Context: Charles Dickens in the Victorian era.

The Big Ideas in Dicken's Oliver Twist

Corruption -

Crime -

Poverty -

Villains' vs victims -

An introduction to the workhouse and the Poor Law

The story and moral of Oliver Twist Key characters and quotations

Vocabulary: Key Words

morality -

moral -

brutal –

barbaric –

exploit –

corrupt –

villain –

malicious -

victim -

naïve –

society –

workhouse –

poverty –

vulnerable – i

How to write a simple analytical paragraph

ENGLISH Knowledge organiser Year / 'Oliver Twist': GS Knowledge Organiser				
What we are learning t	nis term:	Plot Breakdown of Oliver Twist	Vocabulary: Subject Specific Terminolo	gy
An introduction to life in	Victorian London		characterisation -	

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An introduction to life in Victorian London An introduction to the life of Charles Dickens		characterisation -
7 in this oddection to the me or charles brokens		

irony -

novel –

Oliver

Mr. Bumble

Noah Claypole

Fagin

Bill Sikes

Nancy

Mr. Brownlow

Writing Analytically

protagonist -

antagonist -

topic sentence –

Characters in Oliver Twist

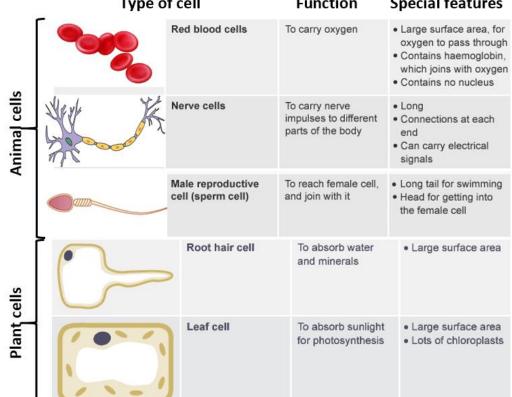
Jack Dawkins (The Artful Dodger)



Year 7 Term 2 Science/Biology: Topic 7.05



B. What are specialised cells? Specialised cells are found in multicellular organisms. Each specialised cell has a particular function within the organism Type of cell Function Special features Red blood cells To carry oxygen • Large surface area, for oxygen to pass through



B.	What is a tissue?

A group of cells working together to perform a particular function

C. What is an organ?

A group of tissues working together to perform a particular function $% \left(1\right) =\left(1\right) \left(1\right$

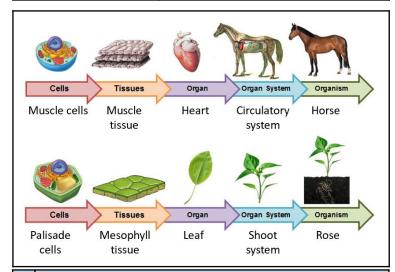
D. What is an organ system?

A group of organs working together to perform a particular function

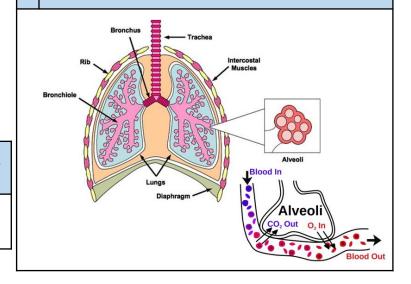
B. How do substances move into and out of cells?

By diffusion.

В	What are the 2 main types of organism?	
Unicellula	ar	Consisting of just one cell
Multicellu	lar	Consisting of many cells



D What are the organs in the gas exchange system?





B. What is a malnutrition?

If a person has an **unbalanced diet** they are said to be malnourished.

This can lead to people becoming overweight or underweight or having deficiency diseases.

B. What is obesity?

If a person eats **too much food** and does **not do enough exercise** they will gain weight.

If someone becomes **very overweight** they are said to be obese.

B. What is a deficiency disease?

A disease caused by the **lack** of a **specific nutrient**.

- A lack of vitamin C can lead to scurvy which affects the gums.
- A lack of vitamin D can lead to rickets which affects the bones.

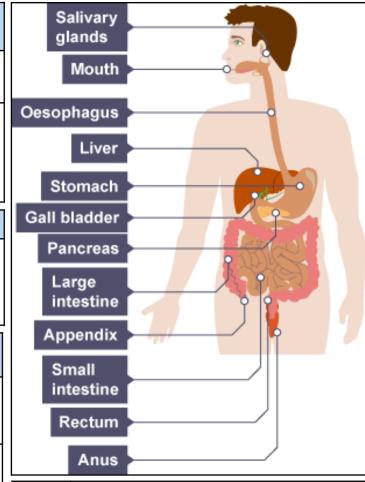
B. What is starvation?

If a person does not **eat enough food** they will they will **lose weight**. In the extreme this can lead to starvation.

C. Describe the function of enzymes in the digestive system.

Enzymes help to break down larger food molecules into smaller ones, so that they can be absorbed through the walls of our small intestines, into our blood stream.

Enzyme	Made in	What it breaks down and where
Amylase	Salivary glands, pancreas, small intestine	Starch into sugars, in the mouth and small intestine
Protease	Stomach, pancreas, small intestine	Protein into amino acids , in the stomach and small intestine
Lipase	Pancreas and small intestine	Lipids into fatty acids and glycerol, in the small intestine



C. Describe the role of bacteria in the digestive system.

- 1. Digesting certain carbohydrates that our own enzymes cannot.
- 2. Reduce the chances of harmful bacteria multiplying and making us ill.
- 3. They produce some vitamins that we need that we cannot (e.g. vitamins K and B).



Year 7 Term 2 Science/Biology: Topic 7.05



What we are learning this term:

- A. Movement
- Breathing and Fitness
- C. Effect of drugs
- Aerobic and Anaerobic respiration
- Reproduction and Heredity

6 Key Words for this term

1. Chromosomes

Anaerobic

- 4. Respiration
- Exchange
- 5. Aerobically

6. Cilia

What are the 4 functions of the Skeletal System?

Movement, support, protection and making red blood cells

Support – what is the main function of the spine?

The spine supports the upper body and allows us to stand upright.

Protection – what is the function of the following:

Ribcage	Protects the heart and lungs
Cranium (skull)	Protects the brain

Making blood cells - what part of the bone makes blood cells?

Bone marrow produces:

- **Red blood cells** (which transport O₂ and CO₂)
- White blood cells (some of which fight disease)
- Platelets (which cause blood clotting e.g. when we cut ourselves)

Why are bones hollow?

Long bones in the body are hollow - in the middle of the bone is a marrow cavity. The cavity contains bone marrow, from which blood is produced.

A. Movement and muscles

What are the following: Ligaments Bones are attached to each other by ligaments.

Muscles	A collection of tissues which can contract and relax, causing other body parts (including bones) to move.
Tendons	Muscles are attached to bones by tendons . They are a strong, flexible tissue attaching a muscle to a bone.

How does the muscular system help us move?

This system allows us to move by contracting and relaxing our muscles

A. How do your muscles move your bones?

Muscles exert a **force** on bones to move them.

A. What is Biomechanics?

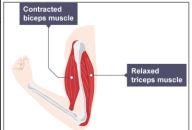
Biomechanics is the working together of the skeletal system and the muscular system to help us move.

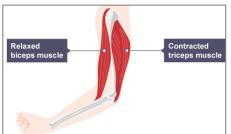
Α What are antagonistic muscles?

In order to move bones in two directions (e.g. bending then stretching your arm), muscles are paired antagonistically (one moves the bone in one direction, the other in the opposite direction).

How do they work?

- To raise the forearm, the biceps contracts and the triceps relaxes.
- To lower the forearm again, the triceps contracts and the biceps relaxes.





A. What is Osteoporosis

Osteoporosis is a condition in which someone loses bone density, making their bones fragile so they are more likely to break bones.

What are rickets?

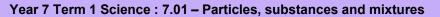
Rickets can be caused by a deficiency of calcium or vitamin D. Rickets causes bone pain, and soft bones which can deform

A. What happens if you overstretch a tendon?

Over-stretching a tendon can cause it to snap. Tendons will heal themselves but become shorter in the process because the two severed ends overlap to heal, reducing flexibility

What is Tendonitis?

As the body tries to heal a tendon, it will swell and become painful. This is called tendonitis, and includes tennis elbow.







What we are learning this term:

- A. Particle model
- B. Changing State
- C. Mixtures
- D. Separating techniques

7 Key Words for this term

1. Distillation

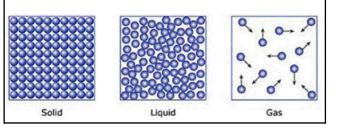
7. Properties

- 2. Separation
- 3. Solution
- 4. Solute
- 5. Solvent
- 6. Chromatography

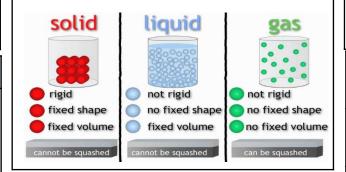
A. What is particle theory?

The theory that all matter is made up of particles.

A.	Describe the arrangement and movement of particles in the three states of matter.
Solid	In a regular pattern. Particles can vibrate in a fixed position.
Liquid	Particles are arranged randomly but are still touching each other. Particles can slide past each other and move around.
Gas	Particles are far apart and are arranged randomly. Particles store a lot of energy, they move in all directions at a high speed.



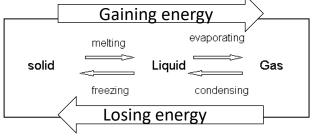
A. Describe the properties of the three states of matter.



A. What is the law of conservation of mass?

The Law of Conservation of Mass states that mass cannot be created or destroyed.

В.	What are the different changes of state?	
Melting	Change of state from solid to liquid	
Freezing	Change of state from liquid to solid	
Evaporation	Change of state from liquid to gas	
Condensation	Change of state from gas to liquid	
Gaining energy		

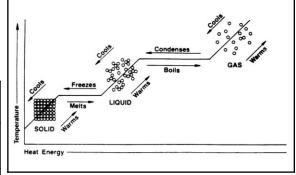


A. What is diffusion?

The movement of particles from an area of higher concentration to an area lower concentration.

B. What happens to the temperature of a substance when it changes state?.

During the change of state, the temperature will stay the same until the change of state is complete



C. What is the difference between a pure and an impure substance?

Pure	Impure
A material that is made up of only one type of particle.	A material that made up of more than one type of particle.
He He	



A.

Mixtures

Year 7 Term 1 Science: 7.01 – Particles, substances and mixtures



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Wh	at we are learning this term:
A.	Particle model

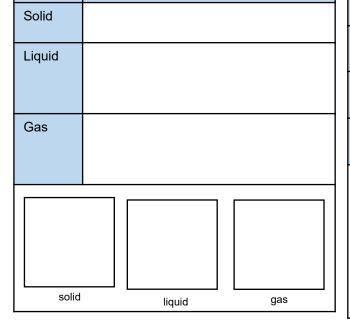
D.	Separating techniques		
7 K	Key Words for this term		
1		7	

1.	7.	
2.		
3.		
4.		
1. 2. 3. 4. 5.		
6.		

A.	What is particle theory?

states of matter.

Describe the arrangement and movement of particles in the three

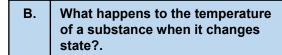


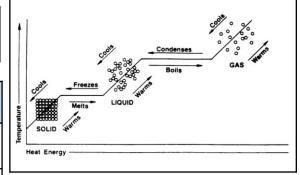
A.	Describe the properties of the three states of matter.			
ξ	Solid	Liquid	Gas	

|--|

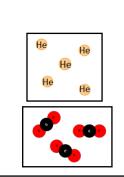
В.	What are the different changes of state?
Melting	
Freezing	
Evaporation	
Condensation	
solid	Liquid Gas

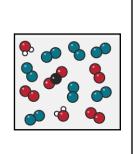
A.	What is diffusion?





C.		ference between a pure substance?
	Pure	Impure









D. What is a mixture?

A mixture contains different elements or compounds that are not chemically joined to each other.

What happens when a substance
dissolves?

During dissolving, the solvent particles surround the solute particles and move them away from each other, so they are spread out in the solvent.

D.	What are the different parts of a solution?		
Solute	The substance that dissolves into the solvent.		
Solvent	The liquid that the solute dissolves into.		
	Solvent		

D.	What is the difference between a soluble substance and an insoluble substance?		
Soluble		A substance that dissolves into a solvent.	
Insoluble		A substance does not dissolve into a solvent.	

D.	How are different mixtures separated?			
Method		Used to separate:	Apparatus	
Evapora	ation	Soluble substances from a solution	Solution Evaporating basin Heat	
Filtration	ר	An insoluble solid from a liquid	Filter paper	
			Solid and liquid	
			Filter funnel	
Distillation	on	The parts of a liquid solution according to their boiling point.	Liebig condenser	
		51	Pure vapour	
			Mixture of liquids	
			Heat	
Chroma	tography	Mixtures of solutes according to their solubilities in a solvent.	piece of wood pin paper beaker bink spot	
			water start water End	



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D.	What is a mixture?

D.	What happens when a substance dissolves?

D.	What are the different parts of a solution?	
Solute		
Solvent		

D.	What is the difference between a soluble substance and an insoluble substance?	
Solubl	е	
Insolul	ble	

Solution

D.	D. How are different mixtures separated?		
Metho	od	Used to separate:	Apparatus
Evapo	ration		
Filtrati	on		
Distilla	ation		Heat
Chrom	natography		piece of wood pin paper beaker water water End

7.04: Chemical changes

Atom

The smallest particle of matter, which all things are made of.



a single atom

Element

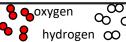
A pure substance that is made of only one type of atom. All atoms of an element are identical, e.g. Gold is an element made up of gold atoms only. The 118 known elements are listed on the periodic table of elements.



The atoms of some elements do not join together, but instead they stay as separate atoms, e.g. helium.

helium

The atoms of other elements join together to make molecules, e.g. oxygen and hydrogen.



Properties of elements

Individual atoms do not have the properties of the element. The properties of an element are because of the arrangement and behaviour of the atoms as a group.

Metals	Non-metals
most are shiny	most are dull
most are hard	solid non-metals are soft and easy to cut, except carbon as diamond
most are strong	most are not strong
most are sonorous (makes a ringing sound when hit)	most are not sonorous
malleable (easy to reshape without breaking)	not malleable
most are ductile (can be drawn out into a long wire without breaking)	not ductile
most have very high melting and boiling points	most have very low melting and boiling points
some but not all are magnetic	not magnetic
conduct electricity	non-metals do not conduct electricity, except carbon as graphite
good at conducting heat	poor at conducting heat

Writing element symbols

The first letter is always written as a capital letter and if there is a second letter, it is always written as a lowercase letter. Element symbols make writing elements easier and allow scientists all over the world to communicate and write about them.





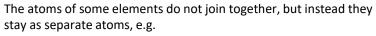
sodium oxygen



7.04: Chemical changes Blank

Atom





The atoms of other elements join together to make e.g.





000

Properties of elements

Individual atoms do not have the properties of the element. The properties of an element are because of the arrangement and behaviour of the atoms as a group.

Metals	Non-metals

Writing element symbols

Na



sodium oxygen



7.04: Chemical changes

Compound

 $\label{eq:Asymptotic made} A \ substance \ made \ of \ two \ or \ more \ different \ elements \ chemically \ joined \ (bonded) \ together.$

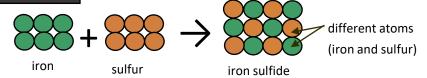
A chemical bond is a strong force that holds atoms together in a compound. Lots of energy is needed to break a chemical bond. A compound cannot be easily separated.

A compound may have very different properties to those of the elements from which it is made. Water is a compound of hydrogen and oxygen.

Each of its molecules contains two hydrogen atoms and one oxygen atom.

Chemical reactions

When chemicals react, the atoms are rearranged. For example, iron reacts with sulfur to



make iron sulfide. Iron sulfide, the compound formed in this reaction, has different properties to the elements it is made from.

	iron	sulfur	iron sulfide
Type of substance	element	element	compound
Colour	silvery grey	yellow	black
Is it attracted to a magnet?	yes	no	no

Conservation of mass

Atoms are not destroyed nor created during chemical reactions, so in any reaction:

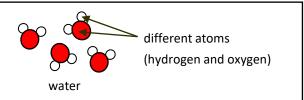
Total mass of reactants = total mass of products

Naming metal and non-metal compounds

The metal element (furthest left on the periodic table) comes first in the name of the compound. The ending for the non-metal is shortened and changed to '−ide'. E.g. iron + sulfur → iron sulfide

Naming three element compounds containing oxygen

The metal element (furthest left on the periodic table) comes first in the name of the compound. If there are three elements in the compound, and one of them is oxygen, the ending of the non-metal is shortened and changed to '−ate'. E.g. lithium + nitrogen + oxygen → lithium nitrate



Chemical formulae

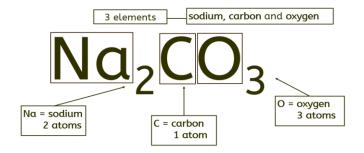
A chemical formula uses chemical symbols and numbers to show how many of each atom is present in a compound.

The small numbers (subscript) go at the bottom.

For example:

CO₂ is correct;

CO2 and CO² are wrong.



The formula for sodium carbonate is Na_2CO_3 . It tells you that sodium carbonate contains two sodium atoms (Na x 2), one carbon atom (C) and three oxygen atoms (O x 3).

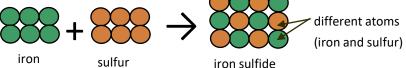




7.04: Chemical changes Blank

Chemical reactions When chemicals

react, the atoms are rearranged. For example, iron reacts with sulfur to



make iron sulfide. Iron sulfide, the compound formed in this reaction, has different properties to the elements it is made from.

	iron	sulfur	iron sulfide
Type of substance			
Colour			
Is it attracted to a magnet?			

Conservation of mass

Na₂CO₃

water

Chemical formulae

The formula for sodium carbonate is:

Naming metal and non-metal compounds

Naming three element compounds containing oxygen



different atoms

(hydrogen and oxygen)

7.04: Chemical changes

Chemical equations

We summarise chemical reactions using equations:

reactants → products

- Reactants are shown on the left of the arrow;
- **Products** are shown on the **right** of the arrow.

Do not write an '=' sign instead of an arrow.

If there is more than one reactant or product, they are separated by a '+' sign. For example:

copper + oxygen → copper oxide

Reactants: copper and oxygen **Products**: copper oxide

A word equation shows the names of each substance involved in a reaction and must not include any chemical symbols or formulae.

Oxidation reactions

In oxidation reactions, a substance gains oxygen. Metals and non-metals can take part in oxidation reactions (be oxidised).

Magnesium reacts with oxygen to form magnesium oxide:

magnesium + oxygen → magnesium oxide $2Mg(s) + O_2(g) \rightarrow$ 2MgO(s)

Carbon reacts with oxygen to form carbon dioxide:

carbon + oxygen → carbon dioxide $C(s) + O_2(g) \rightarrow$ $CO_2(g)$

Another example is a combustion reaction, where we burn fuels in oxygen:

Fuel + oxygen → carbon dioxide + water

methane + oxygen → water + carbon dioxide

- Combustion is another name for burning fuels.
- It is an exothermic reaction.
- The fire triangle shows three components which, when combined, provide the right conditions for combustion to happen.



Thermal decomposition reactions

This is the breaking down of a substance, using heat, to form two or more products. It is an endothermic reaction.

Many metal carbonates take part in thermal decomposition reactions. For example, copper carbonate:

copper carbonate is green; copper oxide is black.

copper carbonate → copper oxide + carbon dioxide

CuCO3(s) \rightarrow CuO(s) + CO₂(g)

Exothermic and Endothermic reactions

- **Exothermic** reaction **transfers** energy to the thermal store of the surroundings. This causes a rise in temperature (positive temperature change).
- Hand warmers transfer energy to the thermal store of the surroundings by an exothermic oxidation reaction.
- Endothermic reaction transfers energy in from the thermal store of the surroundings. This causes a **drop** in temperature (**negative** temperature change).
- Sports injury packs transfer energy from the thermal store of the surroundings by an endothermic reaction.

Temperature data collected from exothermic and endothermic reactions can be improved by:

- Using a **polystyrene c**up as an insulator, as it reduces energy transfers to or from the surroundings.
- Using a **lid** to reduce energy transferred from the surface.
- Using a digital thermometer, which is easier to read than a regular thermometer and, if it measures in decimal places, also has better resolution.

State symbols in chemical formulae provide information about the physical state of the reactants and products.

(s) – solid, (l) – liquid, (g) – gas, and (aq) – aqueous solution (i.e. dissolved in water).

The state symbol comes after the chemical formula and is written in lower case and in brackets. E.g. $CuCO_2(s) \rightarrow CuO(s) + CO_2(g)$



7.04: Chemical changes Blank

Chemical equations

We summarise chemical reactions using equations:

- Reactants
- Products

Do not write an '=' sign instead of an arrow.

If there is more than one reactant or product, they are separated by a '+' sign. For example:

Reactants:

Products:

Oxidation reactions

Magnesium reacts with oxygen to form magnesium oxide:

magnesium + oxygen \rightarrow

 $2Mg(s) + O_2(g) \rightarrow$

Carbon reacts with oxygen to form carbon dioxide:

 $\mathsf{carbon} + \mathsf{oxygen} \to$

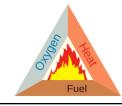
 $C(s) + O_2(g) \rightarrow$

Another example is a combustion reaction, where we burn fuels in oxygen:

Fuel + oxygen →

methane + oxygen →

· Combustion is



Thermal decomposition reactions

copper carbonate is green; copper oxide is black.

copper carbonate →

 $CuCO_3(s)$ \rightarrow

Exothermic and Endothermic reactions

• Exothermic reaction -

• Endothermic reaction -

• Temperature data collected from exothermic and endothermic reactions can be improved by:

State symbols







What we are learning this term:

- A. Compare Light and Sound waves
- B. Wave behaviour
- C. Sound waves
- D. Hearing ranges
- E. Uses of sound

A. Types of Waves

Waves transfer energy without transferring matter.

A. What are the two types of waves?

Transverse Longitudinal

• Oscillations are perpendicular to the direction • Oscillation

- Oscillations are perpendicular to the direction of energy transfer.
- Oscillations are parallel to the direction of energy transfer.

3 Key Words for this term

- 1. Ultrasound
- 2. Frequency
- 3. Transverse

B. What different behaviours do waves show?

Waves can travel through all sorts of media, and different things can happen at the **boundary** between different media:

Transmission	Passing through, we say a wave is 'transmitted' through a medium
Reflection	When a wave bounces back from a boundary between media at the same angle as which it hit the boundary.
Refraction	When a wave changes direction at the boundary between media due to a change in speed.
Absorption	When the energy a wave transfers goes into heating a material.
Diffraction	The spreading out of a wave after it passes through a gap.

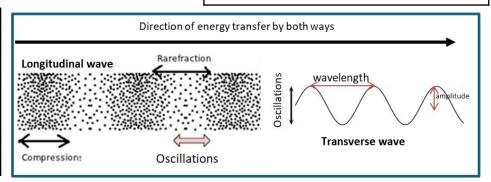
3. What is Superposition

Superposition occurs when two or more of the same kind of waves are travelling together. The waves can add up or cancel each other out depending on how they line up.

Constructive Interference Destructive Interference = Destructive Interference

A.	How do sound waves compare with Electromagnetic waves (e.g. Light)	
Sound		EM waves, like light
Requires a medium (particles) to travel		Does not require a medium (particles)
Longitudinal waves		Transverse Waves
Travels faster in more dense media. In air 330m/s		Travels slower in more dense material. In vacuum 3 x 10 ⁸ m/s

C.	Changes in sounds					
What is pitch?		The highness/lowness of a sound. Higher sounds have a higher frequency				
What is frequency?		The number of oscillations in a wave per second. This is also the number of waves passing a point per second. It is measured in Hertz (Hz)				
What is volume?		The intensity of a sound. Louder sounds have a larger amplitude. It is measured in decibels (dB)				





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What	we are	learning	this	term:

- A. Compare Light and Sound waves
- B. Wave behaviour
- C. Sound waves
- D. Hearing ranges
- E. Uses of sound

A. Ty	pes of Waves
-------	--------------

Waves transfer energy without transferring matter.

A. What are the two types of waves?

3 Key Words for this term

- 1.
- 2.
- 3.

Waves can travel through all sorts of media, and different things can happen at the **boundary** between different media:

What different behaviours do Waves show?

A. How do Sound waves compare to Electromagnetic waves (e.g. Light)?

Sound	EM waves, like light				

Transmission

В.

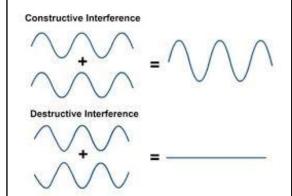
Reflection

Absorption

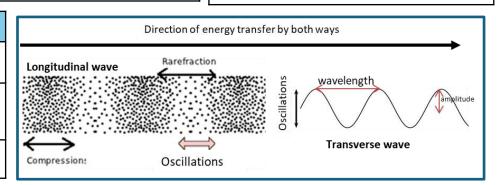
Refraction

Diffraction

B. What is Superposition?



C.	Changes in so	ounds
What is pitch?		
What is frequency?		
What is volume?		







C.	How is sound produced?
----	------------------------

Sound is produced by vibrations

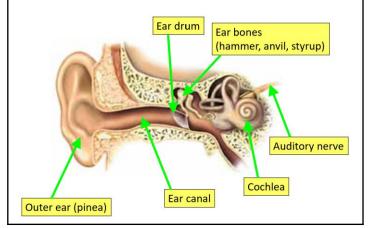
How does sound travel?

Vibrations transfer energy through particles.

Which media does sound travel fastest in and why?

Solids – the particles are closer together

C.	Part of the Ear	What is the Function?					
1. Outer ear (pinea)		Collects the sound like a funnel.					
2. Ea	ar canal	Transmits sounds from the pinea to the ear drum					
3. Ea	ar drum	Sound waves causes this to vibrate					
4. Ear bones (hammer, anvil, stirrup)		After the ear drum vibrates, it passes the vibrations on to these. They transfer the vibrations to the cochlea					
5. Cochlea		Receives vibrations and converts these to nerve impulses					
6. Auditory nerve		Carries nerve impulses (messages) to the brain					



D. Hearing ranges What is the hearing range of humans? Humans have a hearing range between 20 – 20 000 Hz What is ultrasound? Sounds with a frequency above 20 000 Hz What is ultrasound used for? Uses of ultrasound: Prenatal scans of unborn babies Ultrasonic cleaning of fragile objects (eg jewellery) Breaking up kidney stones to prevent harm.

E. What is an echo?

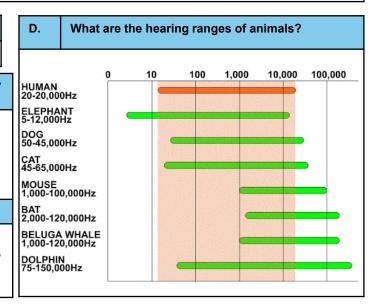
A reflected sound

E. How do loudspeakers work?

- Loudspeakers are vibrating cones.
- The pattern and frequency of the vibrations (oscillations) determines the sound.

How do Microphones work?

Microphones have a vibrating diaphragm inside, which converts the sound wave into an electrical signal in a circuit.

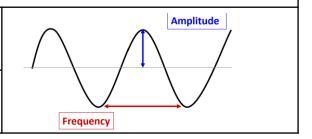


D. Seeing sounds – How can you see sounds?

You can use an instrument called an oscilloscope to see a sound wave

Amplitude (volume) is shown by the height. The higher the waves, the louder the sound.

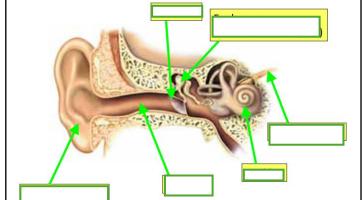
The frequency (pitch) is shown by how close the waves are to each other. The closer they are, the higher the pitch.



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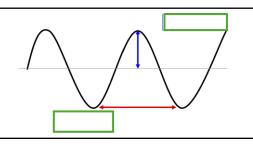
C. How is soun	nd produced?	D. Hea	ring ranges							
l		What is the h humans?	earing range of							
How does sound tra	avel?	What is Ultra	sound?							
Which media does	sound travel fastest and why?	What is ultras	sound used for?							
C. Part of the Ear	What is the Function?	E. What i	s an echo?	D.	What	are the he	earing rang	es of an	nimals	
1. Outer ear (pinea)		F 11	. Isodom observania			0 1	0 100	1,000	10,000	100,000
2. Ear canal		E. How d	o loudspeakers work?		AN 1,000Hz PHANT 000Hz					
3. Ear drum					000Hz 5,000Hz					
4. Ear bones (hammer, anvil, stirrup)		How do Micr	ophones work?		5,000Hz SE -100,000Hz					
5. Cochlea		Tion do linio		BAT 2,000	-120,000Hz					
6. Auditory nerve					JGA WHALE -120,000Hz PHIN 50,000Hz					

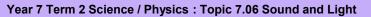




Amplitude (volume) is shown by:

The frequency is shown by:





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What we are learning this term:

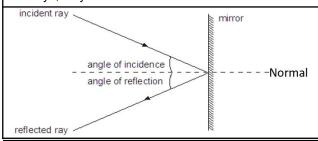
- A. Light and materials
- B. Ray model
- C. Colour
- D. Weight and mass
- E. Astronomical structures and distances
- F. Days, years and seasons

6 Key Words for this term

- 1. Vacuum
- 4. Transmission
- Refraction
- 5. Wavelength
- 3. Absorption
- 6. Reflection

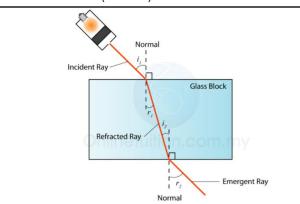
B. What is reflection?

When a ray of light (**incident ray**) reflects off a material and the reflected ray of light then goes into your eye, for you to see it.



B. What is refraction?

When light **changes direction** as it enters or leaves a different medium (material).



A. What are the three different ways light interacts with material?

Light is **transmitted** it passes straight through

Light is **absorbed** it does not pass through

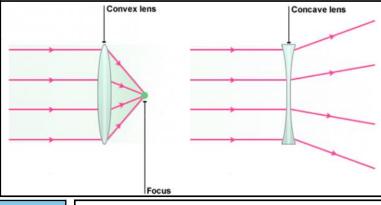
Light is **reflected**light bounces off the surface of the material

Absorbed Transmitted

B. What is are the two types of lenses?

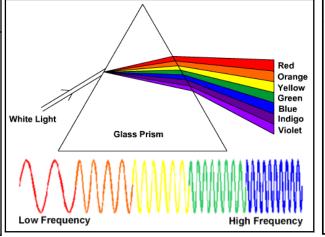
Convex lens – light rays are refracted then **converge** (meet up).

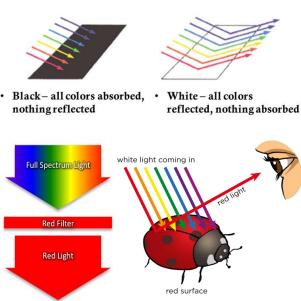
Concave lens – light rays are refracted then **diverge** (move apart).



C. What is light dispersion?

The **separation of white light** into colours according to frequency.









What we are learning this term:

- A. Light and materials
- B. Ray model
- C. Colour

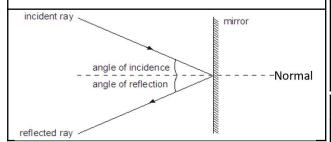
В.

- D. Weight and mass
- E. Astronomical structures and distances
- F. Days, years and seasons

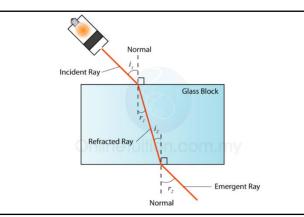
6 Key Words for this term

- 1.
- 2. 5 3. 6
- _____

What is reflection?



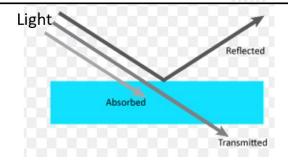
B. What is refraction?



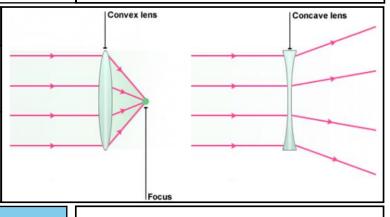
A. What are the three different ways light interacts with material?

Light is _____ it passes straight through
Light is _____ it does not pass through

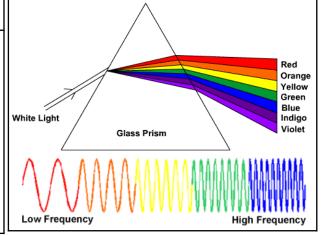
Light is _____ light bounces off the surface of the material

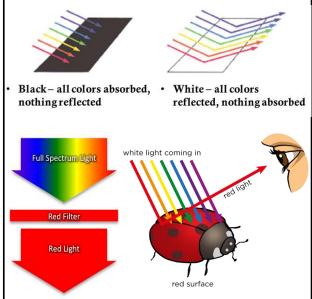


B. What is are the two types of lenses?



C. What is light dispersion?





7.03: Development

Background

Across the world, the standard of living and quality of life can be very different.

- A Countries therefore have different classifications based on the quality of life within them.
- B How developed a country is can be measured in different ways.
- Development levels can vary within and between

 C countries. There are many reasons why some countries are more developed than others.
- D,E Countries can become more developed in many ways, including through economic growth from tourism, top-down development projects and bottom-up development projects.

B) Measuring development

	1	1 GNI per capita (n) the average income of a country's citizens.	
	2 infant mortality rate 3 life expectancy 4 literacy rate		(n) the number of babies that do not survive to one year old per 1,000 births.
			(n) the average number of years a person is expected to live.
			(n) the percentage of people in a specific age group, typically aged 15 and above, who can read and write.
5		average years of schooling	(n) the average number of years of education that individuals aged 25 and older have completed.

(n) a composite measure of development that is

used to categorise the development of countries

using GNI per capita, life expectancy and average



D and E) Development Projects

D) Top-down project: The Grand Inga Dam DRC

Advantages	Disadvantages		
It provides a reliable source of renewable energy for the DRC.	It would flood 22,000 hectares of land in the Bundi Valley.		
It provides electricity for Kinshasa at a lost cost.	Natural habitats will be destroyed by the reservoir.		
It produces electricity that the DRC can sell the other countries.	35,000 people would be displaced from their homes by the dam reservoir.		
It produces electricity to power more coltan and copper mines.	Electricity will be sold to other countries, and many people in rural DRC will still be without electricity.		

A) Country classification

1	developed	(n) countries with high standards of living, advanced infrastructure and strong economies.
2	emerging	(n) countries transitioning between developing and developed, showing rapid improvements in infrastructure.
3	developing	(n) countries with lower standards of living, less advanced infrastructure and economies that are growing but not yet strong.

C) Factors that hinder development

years of schooling.

Human

6 Development

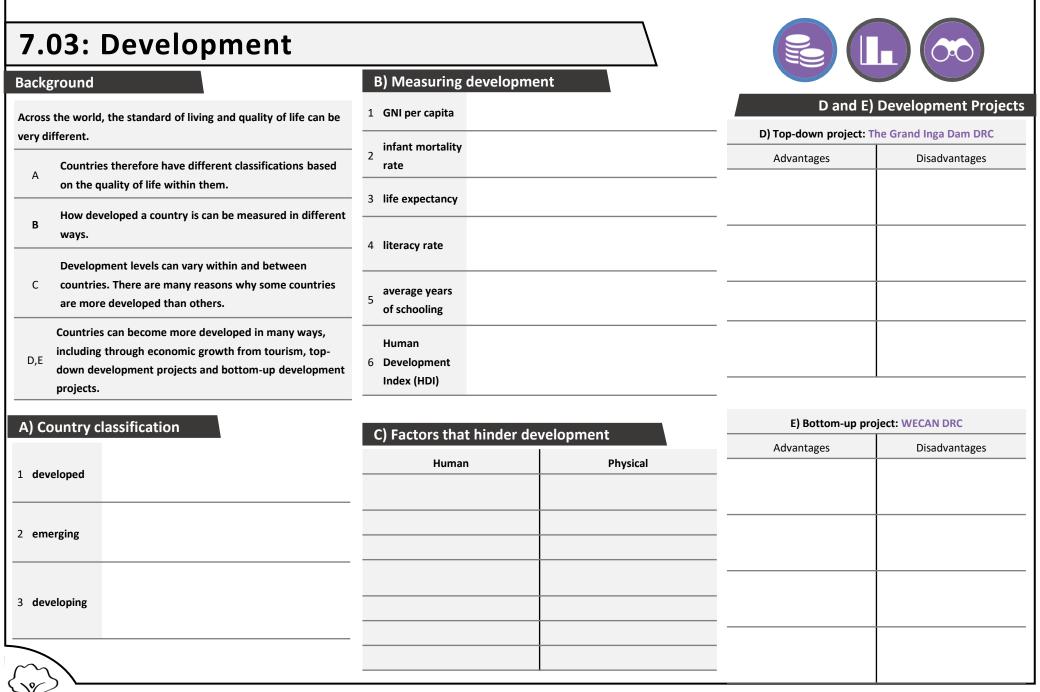
Index (HDI)

c) ractors that inhaer development				
Human	Physical			
uneven distribution of income	challenging relief			
corruption	extreme climate			
conflict	lack of natural resources			
low-value goods and services for trade	landlocked			
high levels of debt	tectonic hazards			
poor education systems	extreme weather			
poor healthcare systems	lack of water resources			

E) Bottom-up project: WECAN DRC

Advantages	Disadvantages		
It protects the habitats of 100,000 species of animals and plants.	It is small scale, so it has limited reach.		
It empowers indigenous women.	It does not stop illegal logging.		
Women earn money from selling fruit and herbs from the trees planted.	The project currently supports only 700 women.		
It reduces the impact of climate change through reforestation.	It takes a long time for the full benefits to be achieved.		





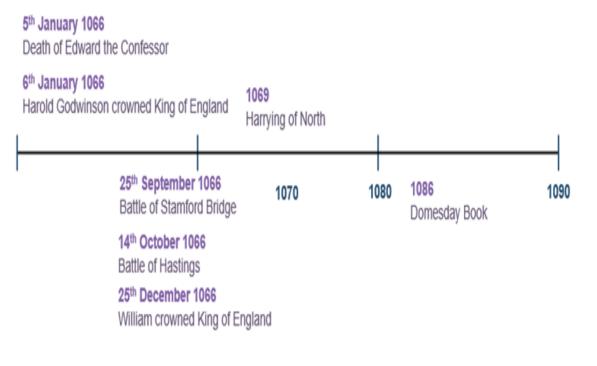
Year 7 History: The Norman Conquest

What we are learning this term:

The crisis of succession for Edward the confessor following his death and the competition for the Throne. A focus on the Battle of Stamford Bridge and Hastings

A .	Can you define these key words?
Migration	The movement of people from one place to another
Invade	To enter a place an area by force and take control
Succession	The order of taking over and official title or position
Inherit	To receive something from a person who has died
Claimant	A person who believes they have a right to something
Oath	A promise witnessed by God
Illegitimate	A child born to parents who are not married
Conquer	To take control of people or a place by force
Cavalry	A group of soldiers who fight on horses
Archer	A soldier who's main weapon is a bow and arrow
Infantry	A soldier who fights on foot
Coronation	A ceremony in which a new monarch is crowned
Motte and Bailey Castle	A simple castle with a man made hill surrounded by a clear defensive area.
Harrying	To repeatedly attack something
Feudal System	System where someone who holds land gives land in exchange for support
Primogeniture	Being the first born
Source	Something that people made or wrote during the time of study
Interpretation	An opinion about what the past was like

B. Themes and threads 2. Identity 3. Connectivity 1. Power The control a person or The qualities and The act of being joined group has on a country. characteristics that make a or being linked to person who they are and somewhere, something, For example, the what they value as or someone. monarchs held important. complete control and For example, England needed a clear line of For example, the Normans was made of up of many succession to avoid a promoted Christianity in diverse groups who migrated before 1066. foreign claim to the Europe throne. This includes threads such This includes threads such as migration and This includes threads as women, and beliefs. such as succession, medicine. warfare, protest, and class system.



The crisis of succession for Edward the confessor following his death and the competition for the Throne. A focus on the Battle of Stamford Bridge and Hastings Can you define these key words? A. Migration Invade Succession Inherit Claimant Oath Illegitimate Conquer Cavalry Archer Infantry Coronation Motte and Bailey Castle Harrying Feudal System

Year 7 History: The Norman Conquest

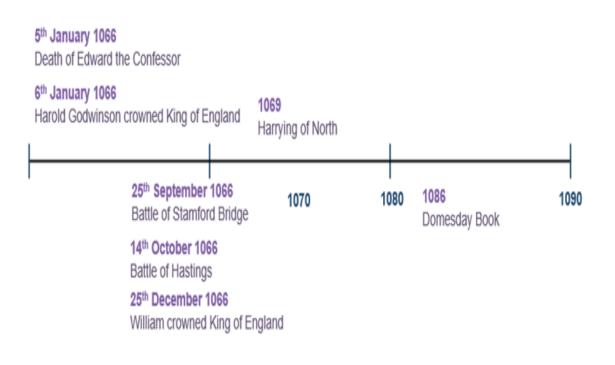
What we are learning this term:

Primogeniture

Interpretation

Source

B. Themes and threads						
1. Power 2. Identity 3. Connectivity						



7.03: Judaism

Key Vocabular

ocab	ular	y			
	1	Abraham	The founder of Judaism and husband of Sara.		Holy Books introduced
	2	Covenant	An agreement between two sides (between humans and God).		Hebrew Bible, which includes
	3	Sara	Female leader, mother of nations and wife of Abraham.	The Tanakh	three parts: the Torah, Nevi'im and Ketuvim.
	4	Isaac	The son of Abraham and Sara.		Holiest scripture for Judaism.
	5	Moses	Leader who freed the Israelites from slavery and was given the 10 commandments.	The Torah	The word means "law" in Hebrew. Written by Moses.
	6	Miriam	Prophetess who helped her brother Moses lead the Israelites out of slavery.		Also important in Christianity and Islam.
	7	Exodus	A book in the Bible which tells the story of the Israelites being freed from slavery.	Nevi'im	Contains books of the Prophets
	8	Ten Commandments	Ten rules given to Moses by God about how humans should behave.		which tell the history of Israel God's messages through the
	9	Esther	A Jewish queen who saved her people from a plot to destroy them.		prophets.
	10	Monotheism	The belief that there is only one God.	Ketuvim	Contains various writings, including poetry, wisdom literature and historical accounts. Contains discussions and interpretations of the Torah, which guides Jewish law and practice.
	11	Shema	An important prayer, declaring the oneness of God.		
	12	Messiah	A future Jewish king who is expected to bring peace.		
	13	Genesis	A book in the Bible which describes the creation of the world.	Talmud	
	14	Mitzvot	613 rules in the Torah which guide Jews in their behaviour.	Taimaa	
	15	Tikkun Olam	"Repairing the world", encouraging actions that improve society and bring justice.		Tools for Studying Religion
	16	Synagogue	A Jewish place of worship, study and community.	Theology is the study of God and ideas about God. Theologians look at how ideas about God influence beliefs in religions and the	
	17	Bar/Bat Mitzvah	Coming of age ceremony (Bar Mitzvah for boys and Bat Mitzvah for girls).		
	18	Pesach/Passover	A Jewish holiday which commemorates the Exodus story.	actions peopl	le will do.
	19	Shabbat	A day of rest and worship observed from Friday evening to Saturday evening.		
	20	Orthodox	A branch of Judaism that follows traditional beliefs, laws and practices.	Social Scientists use evidence to see how people are influenced by society. Social Scientists look at patterns in what people believe about God and how this may	
	21	Reform	A branch of Judaism that adapts traditional beliefs, laws and practices to fit modern life.		

A message given to humans from God, usually to a prophet.

22 **Prophecy**

Religious Studies | 7.03 | Knowledge Organiser

change due to time and place.

7.03: Judaism



Key Vocabulary	

no, recall			 7	
	1	Abraham		Holy Books introduced
	2	Covenant	The Tanakh	
	3	Sara	THE I dilakii	
	4	Isaac		
	5	Moses	The Torah	
	6	Miriam		
	7	Exodus		
	8	Ten Commandments	Nevi'im	
	9	Esther		
	10	Monotheism		
	11	Shema	Ketuvim	
	12	Messiah		
	13	Genesis	Talmud	
	14	Mitzvot		
	15	Tikkun Olam		Tools for Studying Religion
	16	Synagogue		
	17	Bar/Bat Mitzvah		
	18	Pesach/Passover		
	19	Shabbat		
	20	Orthodox		
	21	Reform		
	22	Prophecy	Religious St	cudies 7.03 Knowledge Organiser



Year 7 Term 2 SPANISH Knowledge organiser: Topic = El Instituto



Wh	What we are learning this term:				
A. B. C. D. E. F. G.	School subjects and Opinions of school s Describing the scho Key words across to Telling the time Daily Routine Translation practice	subjects ol day opics			
6 Key Words for this term					
1.	estudiar	4. el horario			

	A. Key Opinions						
4							
I	3.	Pienso que	6. profesor(a)				
ı		•					
ı	2.	asignaturas	5. las instalaciones				
ı		00101011					

A. Key C	philions
Me gusta Me encanta Odio porque divertido/a aburrido/a útil inútil cómodo/a interesante entretenido/a emocionante guay genial soso	I like I love I hate because fun boring useful pointless comfortable interesting entertaining exciting cool amazing dull
asqueroso/a	disgusting
malo	bad
bueno	good
2000	9

B. Key verbs	across topics
tener ser ir hacer jugar ver escuchar comprar vivir hablar deber querer visitar escribir	to have to be to go to do/to make to play to see to listen to buy to live to speak to have to to want / to love to visit to write

C. ¿Qué color es?	What colour is it?	
Los colores amarillo/a atigrado/a azul blanco/a dorado/a gris marrón negro/a rojo/a	Colours yellow tabby blue white gold grey brown black red	
verde dorados/as marrones negros/as	green gold brown black	
D. Las Instalaciones - Facilities		

profesores	
E. Describe tu	s asignaturas?
Las asignaturas las ciencias la educación física el español el francés la geografía la historia la informática	School subjects Science P.E. Spanish French Geography History ICT

	Key Verbs				
	Ser	estudiar	Pensar	Escribir	Vivir
	To be	To study	To think	To write	To live
	Soy	Estudio	Pienso	Escribo	Vivo
	I am	I study	I think	I write	I live
	Eres	Estudias	Piensas	Escribes	Vives
	You are	You study	You think	You write	You live
	Es	Estudia Piensa		Escribe	Vive
	s/he is	He/she studies s/he thinks		s/he writes	s/he lives
	Somos	Estudiamos	Pensamos	Escribimos	Vivimos
	We are	We study	We think	We write	We live
	son	Estudian	Piensan	Escriben	viven
	They are	They study	They think	They write	They live
E. Describe tus asignaturas		uras	F. La hora – Te	elling the Time	

E. Describe tu	s asignaturas	F. La hora – Telling the Time	
el inglés	English	Es la	It is
las matemáticas	Maths	Son las	It is(plural)
la música	Music	y media	half past
la religión	R.E.	y cuarto	quarter past
la tecnología	design technology	menos cuarto	quarter to
-		uno	one
Odio	I hate	dos	two
Detesto	I detest	tres	three
Mi asignatura	favourite subject	cuatro	four
favorita	-	cinco	five
Pienso que	I think that	seis	six
(los profesores) son	(the teachers) are	siete	seven
aburrido/a/	aburrido/a/	ocho	eight
bueno/a/buenos/as	good	nueve	nine
divertido/a/	fun	diez	ten
difícil/es	difficult	once	eleven
fácil/es	easy	doce	twelve
interesante/s	interesting	trece	thirteen
relajante/s	relaxing	catorce	fourteen
simpático/a/os/as –	nice	quince	fifteen
		diecíseis	sixteen
lunes	Monday	diecísiete	seventeen
martes	Tuesday	diecíocho	eighteen
miércoles	Wednesday	diecínueve	nineteen
jueves	Thursday	veinte	twenty
viernes	Friday	veintíuno	twenty one
sábado	Saturday	veintídos	twenty two
domingo	Sunday	veintítres	twenty three
		veintícuatro	twenty four
empezar	To start	¿Qué hora es?	What time is it?
terminar	To finish	la hora	the hour / time
La hora de comer	The lunch hour	El reloj	The clock

Year 7 Term 2 SPANISH Knowledge organiser: Topic = El Instituto

2002

G. Translat	ion Practice
I study Spanish	Еe
I don't study French	Nef
What do you study?	¿Q e?
Music is interesting	Mei
I like my teacher	Mgmp
I hate my teacher	Omp
I think that science is difficult	Pqlcsd
Do you like maths?	¿Tglm?
RE is useful	Lreu
PE is boring	Lefea
The Maths are difficult	Lmsd
English is easy	Elef
Spanish is fun	Eeed
History is boring but easy	Lheapf
My subject favourite is Spanish	Mafee
Because the teachers are interesting	Pipsi
I like science because they are interesting and nice	Mglcpslys
But I prefer maths because they are fun and relaxing	Pplmpsdyr

H . Key Question	s: Answer the following in your own words. Use these model answers
¿Qué estudias en el colegio?	Estudio muchas asignaturas. Estudio el español, el inglés, las matemáticas, las ciencias y mucho más. ¿Y tú? ¿Qué estudias?
¿A qué hora estudias el español?	Normalmente estudio el español los lunes y miércoles. Las clases de español empiezan a las nueve y media y duran una hora. Me gustaría estudiar español todos los días porque es un idioma muy útil y muy importante.
¿Qué asignaturas te gustan y no te gustan? What subjects do you like/dislike	Me encantan las ciencias porque son fenomenales pero no me gustan las matemáticas porque son difíciles y aburridas. Pienso que prefiero la concina porque me encanta comer.
¿Cómo es tu colegio? Describe your school	Mi colegio es bastante grande y muy moderno. Las clases empiezan as las ocho y veinte y terminan a las cuatro menos veinticinco. Tenemos una cantina, una sala de informática, un patio. Pienso que me gusta mi colegio porque es moderno y divertido

I. Key Questions: Translate these model answers using the KO		
¿Qué estudias en el colegio? What do you study at school?	I study a lot of interesting subjects. I study English, Maths, Science and RE. I also study PE, Music and Geography. What about you? What subjects do you study?	
¿A qué hora estudias el español? At what time do you study Spanish?	I study Spanish Thursdays and Friday at 10.30 in the morning. The classes last an hour. I would like to study Spanish all day because it's a fantastic subject and very interesting.	
¿Qué asignaturas te gustan y no te gustan? What subjects do you like/dislike	I love maths because it's fun but I don't like art because it's boring. I love Spanish because the teacher is fun but I hate PE because it's not exciting and I think that it's not relaxing.	
¿Cómo es tu colegio? Describe your school	My school is quite modern and very big. The classes start at 8.30 and finish at 4. We have a canteen, lots of maths rooms, science rooms and computer suites	

	J. Key Grammar
Words for THE and A	The = el or la or los or las – depending on if it's masculine/feminine/plural A = un or una – if it's masculine or feminine
Using the verbs "to be" and "to have" correctly	Tengo = I have (you just need one word in Spanish not 2 like in English) but remember each person needs a different word <i>eg he has</i> = <i>tiene, we have</i> = <i>tenemos</i>
Adjective placement Adjective agreement	Remember adjectives go after the noun Remember adjectives have to agree with the noun in number and gender Eg ojos azules –eyes blues, pelo negro - black hair
Use porque to describe your opinions Use singluar and plurals correctly	Me gusta el inglés porque es fácil BUT Me gusta N las matematicas porque SON facil ES



Year 7 Term 2 SPANISH Knowledge organiser QUIZZABLE: Topic = El Instituto



What we are learning this term:	C. ¿Qué color es?	What colour is it?			Key Ve	rbs	
A. School subjects and adjectives B. Opinions of school subjects	Los colores	Colours yellow tabby	Ser To be	estudiar To study	Pensar To think	Escribir To write	Vivir To live
C. Describing the school day D. Key words across topics E. Telling the time	azul blanco/a		Soy	Estudio	Pienso I	Escribo	Vivo I live
F. Daily Routine G. Translation practice	gris	gold	Eres You are	Estudias	Piensas	Escribes You write	Vives You live
Key Words for this term . estudiar 4. el horario	negro/a	red	Es s/he is	Estudia	Piensa	Escribe s/he writes	Vive
2. asignaturas 5. las instalaciones 6. profesor(a)	verde marrones	gold	Somos We are	Estudiamos	Pensamos We think	Escribimos We write	Vivimos We live
A. Key Opinions		black	son They are	Estudian	Piensan They think	Escriben	viven
Me gusta	D. Las Instalac	iones - Facilities	They are		Triey triirik		
Me encanta I hate		the classroom the library	E. De	scribe tus asigna	aturas	F. La hora –	Telling the Time
divertido/a divertido/a because boring pointless comfortable interesting entertaining emocionante guay genial asqueroso/a malo bueno B. Key verbs across topics	los laboratorios el salón de actos el despacho de la directora hay no hay tiene no tiene	the patio the football pitch the dining room the gym the pool some classes in my school students mixed	Odio Detesto Mi asignatura favorita Pienso que (los profesore aburrido/a/	es) son good fun difficul easy	technology	Es la Son las uno dos tres cuatro cinco seis once doce trece	half past quarter past quarter to seven eight nine ten fourteen
to have to be in hacer jugar	E Describe to	the staffroom	relajante/s	nice Monda Tuesd	y	diecíocho	fifteen sixteen seventeen
vivir hablar deber querer to see to listen to buy to see to listen to buy to see to listen to buy to buy	Las asignaturas Las asignaturas la geografía la historia la informática	School subjects Science P.E. Spanish French	jueves viernes sábado domingo		esday	veinte veintfuno veintfdos veintftres Veintfcuatro	twenty four What time is it? the hour / time The clock

ART Year 7 Term 1:Topic = Remembrance Poppies

A. About Paul Cummins installation 'Blood Swept Lands and Seas of Red'

B. How to use the Grid method for accurate drawing C. Using clay to create a ceramic poppy – slab

What we are learning this term:

- method for accurate drawing
- D. Using poster paint to decorate your sculpture

A.

What?

About Paul Cummins and his installation 'Blood Swept Lands and Seas of Red

He installed 888000 clay poppies at the Tower of London in 2014 covering 16 acres

Why? Each one represented a service/man woman who

died during WW1 (1914-18)

How? Each one was made by hand using clay, fired in the kiln and painted before going on display



How to use the Grid Method for accurate drawing

- Use a ruler to draw an equally spaced grid onto vour image
- Draw an identical grid **LIGHTLY** onto paper
- Draw in the main outlines of your image, focusing on one square at a time Use a ruler to help you *measure* the positioning of lines if needed
- Add main details before erasing he grid on the paper
- Add fine details and build in tone





6 Key Words for this term

- Remembrance
- Sculpture
- Installation Decoration
- Line
- Ceramic



Using clay to create a ceramic poppy using the slab method

Clay is a material used by artists. It is made from minerals. It is found underground. There are many different types of clay.

Steps for making your poppy:

- Roll out the clay using a rolling pin, wooden board and slats
- Use a template or a cutter to cut the poppy shapes Join piece using score and slip
- Decorate the clay using additive and subtractive techniques Fire the sculpture in the kiln
- **Decorate** the ceramic sculpture using poster paint



G. Key words and definitions Remembrance

В

the action of remembering the dead. A 3dimensional artwork

Placing a particular artwork in a specific place

To make something more appealing or visually attractive

A continuous mark with width, length and direction

made of clay and permanently hardened by heat.

The small parts of something

Ø How similar a drawing is to the source

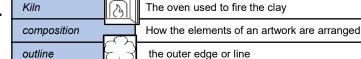
Source What you are drawing or working from

Score and slip Method for joining clay

Construct

The oven used to fire the clay

To build



Rolling pin

What each tool is used for:

Stops the clay sticking and minimises dust Wooden board

Rolling the clay out into a slab

slats Stops the clay being rolled too thin

States of working with clay

Plastic Very flexible, high moisture content, easy to shape Leather-hard Partially dried out, can still be carved but no longer shaped No moisture. Can't be altered Bone dry

Bisque fired After first firing (lower temperature), waterproof ceramic

After second firing (higher temperature). Delicate

ART Year 7 Term 1:Topic = QUIZZABLE

- A. About Paul Cummins installation 'Blood Swept Lands and Seas of Red' B. How to use the Grid method for accurate
- drawing C. Using clay to create a ceramic poppy - slab

What we are learning this term:

- method for accurate drawing
- D. Using poster paint to decorate your sculpture

What?

A.

- Swept Lands and Seas of Red
 - He installed 888000 clay poppies at the Tower of London in 2014 covering 16 acres

About Paul Cummins and his installation 'Blood

- Why? Each one represented a service/man woman who died during WW1 (1914-18)
- How? Each one was made by hand using clay, fired in the kiln and painted before going on display



What are the stages of drawing using the grid method?

В





6 Key Words for this term

- Remembrance
- Sculpture
- Installation
- Decoration
- Line
- Ceramic



C. Using clay to create a ceramic poppy using the slab method

Clav is a material used by artists. It is made from minerals. It is found underground. There are many different types of clay.

Explain the steps for making your poppy including materials and techniques

- 5.
- 5
- 6.

Rolling pin

Explain what each tool is used for:

Wooden board

slats

What are each of the States of working with clay

Plastic Leather-hard Bone dry Bisque fired ceramic

Add definitions for the key words Remembrance

Sculpture Installation

G.

Decorate

Line

Ceramic

Detail

3Accuracy

Source

Construct

Score and slip

Kiln

composition outline

ঙ

YEAR 7 GRAPHIC COMMUNICATION

What are we learning this term?

A Personification

C Computer skills D Key words

Evaluation

Typography

A | Personfication

What is personification?

Personification makes sentences more exciting by: •describing objects as if they are people

describing objects as if they have feelings



How does Paul Thurlby use personification?

Paul Thurlby personifies his letters by giving the turning the letters that he works with into characteristics so that you can clearly see an emotion.

B | Draw the letter A in the following font styles. Write the description of the font style too.

Serif: Serif is a traditional style font. It usually has flicks on the end of each letter.

Sans Serif: Sans serif fonts are modern in style; Sans serif fonts good for large pieces of text.

Script: Script font often resembles everyday handwriting.

Decorative: decorative fonts are unique in style and have an artistic flair. They are often hard to read.

C | Computer skills

What is the shortcut for copy? Ctrl + C

What is the shortcut for paste?

Ctrl + V

What does this symbol stand for?



Photoshop

What does this symbol mean?



Cropping

D| Key words

Graphics	Visual images or designs on a surface which communicate a message such as a brand advertisement or logo.
Typography	The arrangement of type to make written language legible.
Font	The term 'font' refers to a specific style of typeface such as its size and weight, it can come in regular, bold or <i>italic</i> .
Photoshop	A software for editing photos and graphics. It is used for image editing, making illustrations or web design.

E | Evaluation

Evaluation: To judge or give an opinion

Designers will evaluate their products to see what works well and what doesn't. This way they can make any improvements on their current designs to ensure a high-quality product.

When writing an evaluation it is important to include the following three things:

1. Positives – what works well

clearer and easier to read.

- Negatives what doesn't work well
- 3. Possible improvements how could you make it better? For example:

My word sticker looks great, the colours are bright which appeals to the audience. However, some of the letters are hard to read. One improvement I could make is to simplify the personification on some of the letters to make the final word

YEAR 7 GRAPHIC COMMUNICATION

What are we learning this term?					D Key words			
A Personification	B Typography	C Computer skills	D Key words	E Evaluation	Graphics			
A Personfication	on				Typography			
What is personificat	ion?				Font			
How does Paul Thur	lby use personificatio	n?			Photoshop			
					E Evaluation			
B Draw the letter A in the following			C Computer skills		Evaluation: To jud	Evaluation: To judge or give an opinion		
font style too.	ont styles. Write the description of the ont style too.		s the shortcut for	copy?	following three t 1. Positives – w	hat works well		
Serif:		What i	s the shortcut for	paste?		what doesn't work well rovements – how could you make it better?		
Sans Serif:		What	loes this symbol	stand for?				
Script:		Ps What o	does this symbol	mean?				
Decorative:		'لم-	socs tins symbol	mean:				



Year 7 PRODUCT DESIGN Rotation Knowledge Organiser



What we are learning this term:

A. Workshop Tools

B. Materials C. Modelling

D. Key Words

E. Evaluating Work

Steel Rule Wooden Vice Clamp Bench Hook Tenon Saw Pillar Drill Bandfacer The steel Rule Wooden Vice Clamp Bench Hook Tenon Saw Pillar Drill Bandfacer The steel Rule Wooden Vice Clamp Bench Hook Tenon Saw Pillar Drill Bandfacer	A.	Worksh	op Tools					X
	Ste	el Rule	Wooden Vice	Clamp	Bench Hook	Tenon Saw	Pillar Drill	Bandfacer

B. Materials

Timbers come from trees



Scots pine – which you used for your maze frame – is a softwood

Softwoods come in planks and boards

Manufactured Boards come from wood pulp



Plywood – which you used as your base, insert and maze walls – is a manufactured board

Manufactured Boards come in sheets

Polymers come from crude oil



Acrylic – which you used as your lid for your maze – is a polymer

Polymers come in sheets, graduals and filament

C. Modelling

Creating a 3D representation of your product before you manufacture it.

You can use a variety of different materials and computer programs to create a mock up model or prototype such as;







Cardboard	Foamboard	Scrap Wood
3D Printing	2D Design	Solidworks

Modelling is used to test a product before manufacture, to see what works and what doesn't.

Advantages	Disadvantages
Allows a designer to physically handle or view from all sides	Can be time-consuming and complicated
Changes can be made quickly and easily	Testing can be unreliable as they don't use the same materials as the end product

D.	Key Word	ds
Specifi	cation	A specific list of things that your product should be or do.
Modelli	ing	A way of making a 3D representations of your proposed design. To see what went well and how it can be improved.
Sustair	nable (S)	Limited negative impact on the environment.
Manufa	acture	Making a product using tools and machinery.

Evaluate To judge and give an opinion.

Designers will evaluate their products to see what works well and what doesn't. This way they can make any improvements on their current designs to ensure a high-quality product.

When writing an evaluation it is important to include the following three things:

- 1. Positives what works well
- 2. Negatives what doesn't work well
- 3. Possible improvements how could you make it better?

For example:

My maze looks really fun and challenging to play. However, when tested the model version of my game, it was too difficult to complete. One improvement I could make is by taking away some of the traps or moving some of the walls around, so that it is more fun to play.



Year 7 PRODUCT DESIGN Rotation Knowledge Organiser



(D)//							$Q_{L}Q$
What we are learning thi	s term:			D.	Key Word	s	
A. Workshop Tools	B. Materials C. Modellin	g D. Data Analysis & Eval	uation	Specifi			
A. Workshop Tools			X				
				Modell	ing		
					A		
B. Materials		C. Modelling		Sustaii	nable		
Timbers come from		Creating a	before you manufacture it.	Manufa			
	Scots pine – which you used for your maze frame – is a softwood	You can use a variety of differer programs to create a mock up m					
	Softwoods come in and	F SSIRON		E. Evaluat	e g	n of Products ur completed handheld maze ha	nd game
Manufactured Boards co	me from			Evalua	te one pos	itive aspect of it, one negative a	spect of it
	Plywood – which you used as your base, insert and maze walls – is a manufactured board Manufactured Boards come in			time.	improvem	ent you would like to have mad	e ir you nad
Polymers come from		Modelling is used to					
	Acrylic – which you used as your lid for your maze – is a polymer	before manufacture, to see what Advantages	t works and what doesn't. Disadvantages	Possib	ole sentenc	o startors	
	Polymers come in					was successful	
	and,				_	I had issues with was	
				If I I	and more tir	me. I could improve this by	

What we are learning this term:

- A. Health, safety and hygiene in the kitchen
- B. The Eatwell guide and nutrients
- Design Ideas
- Weighing
- Practical skills
- **Evaluation Work**

Year 7 Term 1 : Topic = Healthy Eating and High Skills

- 1 Fruit and Vegetables
- 2 Carbohydrates
- 3 Protein
- 4 Dairy
- 5 Fats and Oils

1 Hygiene

5 Sensory Analysis 2 Health

1	00	
	1	15



What nutritional foods are in the top picture? Can you list 5 of the food that you can see?

In this photo you can see a number of **protein** foods. Protein helps our muscles and cells to grow and repair. Some examples in this photo include:

- Chicken
- 2. Eggs
- 3. Nuts
- Cheese
- Salmon

B. What nutritional foods are in the bottom picture? Can you list 5 of the food that you can see?

In this photo you can see a number of carbohydrate foods. Carbohydrates give out body energy. Some examples in this photo include:

- Bread 1.
- 2. Pasta
- 3. Rice
- Potatoes
- Bananas

Can you list 5 health, safety and hygiene rules and explain the importance of them?

C. Rule

- 1 Wash your hands in hot soapy water
 - 2 tie back your hair
- 3 wear an apron
- 4 use oven gloves when handling hot food
- 5 wash your hands after handling meat

- 5 to avoid giving yourself or others food poisoning

E.	Keywoi	rds
Hygie	ne	A method of keeping yourself and equipment clean
Resea	arch	Information that you find out to help you with a project
Cuisir	ne	Food from a different country
Targe Marke		The age or type of person you are creating a product for.
Carbo es	hydrat	Foods that give you energy
Protei	n	Food that grow and repair your muscles
Fibre		Foods that keep your digestive system healthy and avoid constipation.
Calciu	ım	Foods that make your teeth and bones strong
Desig	n Idea	A sketch or plan of how you are hoping a project to turn out.
Orgar	nisation	Having everything ready for a lesson and following instructions
Time keepii	ng	Using the time to remain organised.
Senso analys		Use your senses to taste and describe a product
Mood Board		A collage of photos and key words based on a project
Mood	Board	

6 Key Words for this term

- 4 Cuisine
- 3 Food Poisoning 6 Preparation

What are the three main nutrients required in the diet?

Carbohydrates	Foods that are eaten to give the body energy
Protein	Food that are eaten to build and

Fats Food that are eaten to protect your vital organs and insulate your

repair muscles and cells



Why it is important

- 1 to kills germs and bacteria
- 2 to stop hair getting into the food
- 3 to protect yourself and your food from contamination
- 4 to avoid burning yourself

What we are learning this term: Keywords Year 7 Term 1 : Topic = Healthy Eating and High Skills A. Health, safety and hygiene in the Hygiene kitchen B. The Eatwell guide and nutrients Design Ideas Research Weighing 2 E. Practical skills 3 F. Evaluation Work 5 Cuisine 6 Key Words for this term What nutritional foods are in the top picture? Can you list 5 of the food that you can see? 4 Cuisine 1 Hygiene 2 Health 5 Sensory Analysis Target Market 3 Food Poisoning 6 Preparation What are the three main nutrients Carbohydrates required in the diet? Protein B. What nutritional foods are in the bottom picture? Can you list 5 of the food that you can see? Fibre Calcium Design Idea C. Can you list 5 health, safety and hygiene rules and explain the importance of them? Organisation Rule Why it is important Time keeping Sensory analysis 5 5 Mood Board



Year 7: Find Your Voice (Elements and Singing)

Term 2



Α	What we are learning about this term
1	Elements of Music
2	Singing Technique
3	Using Graphic scores as notation
4	Singing with confidence
5	Major/ Minor tonality







E - Major and Minor Tonality Major and Minor mean happy a sad sounding music – or mood! Check out the links below by

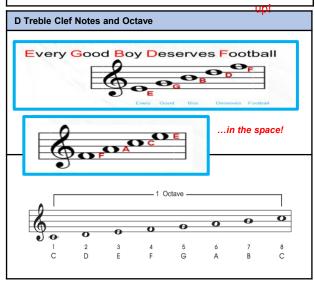
the QR codes to learn more and complete a major or minor quiz!



Game 1

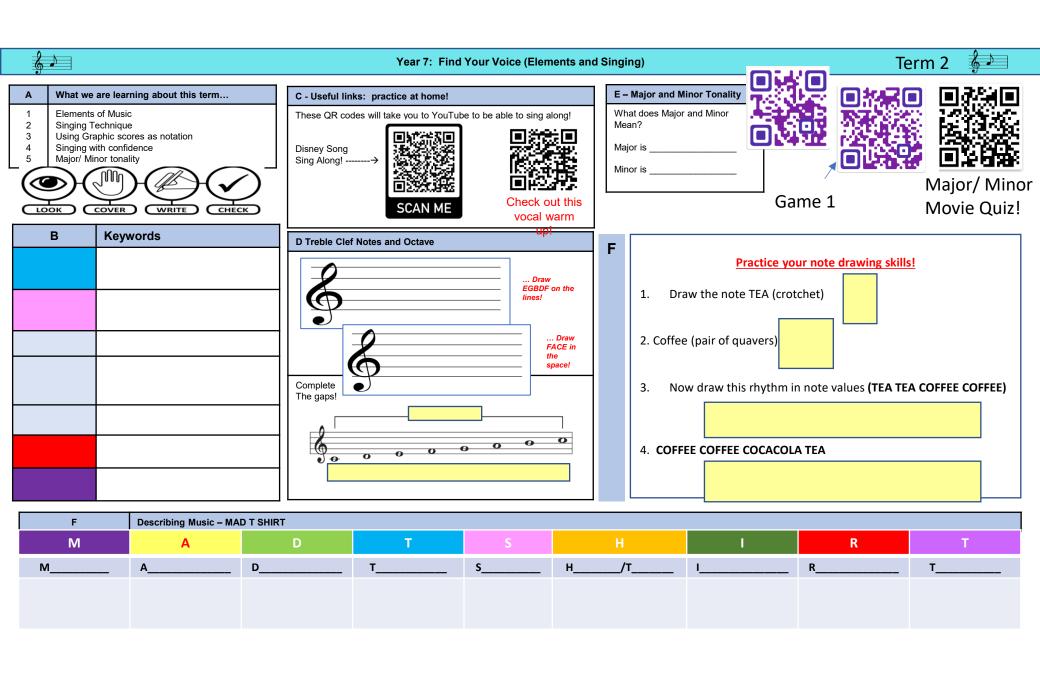
Major/ Minor Movie Quiz!

В	Keywords		
Thin Texture Thick Texture	Not many sounds/layers Many sounds/ layers		
Round	singing/playing the same thing, starting at different times		
Graphic Score	Where pictures and symbols are used instead of notes on the stave		
Warm up	An important exercise for singers to prepare their voice for singing		
Pulse	The steady beat in music		
Rhythm	Combination of long and short notes to create interesting patterns		
Octave	Distance of 8 notes (e.g. C to C)		



-	Basic Rhythm Values in 4/4 time									
		Beat 1	Beat 2	Beat 3	Beat 4					
	Technical name SEMI BREVE (4 beats)									
	Remember it Hold for 4 beats	0								
	Technical name Minim (2 beats)									
	Remember it L - ong	0		0						
	Technical name Crotchet (1 beat)									
	Remember it tea									
	Technical name Quavers (1/2 beat)									
	Remember it Cof - fee									

M	Α	D	Т	S	Н	I	R	Т
Melody	Articulation	Dynamics	Texture	Structure	Harmony/Tonality	Instruments	Rhythm	Tempo
The tune	How notes are played	Loud/quiet and any other volume changes	Layers of sound / how they fit together	The sections and organising	Chords used / the mood	Types of instruments heard	Pattern of notes	The speed





Year 7 Knowledge organiser Topic: Lights, Camera, Action!



What we are learning this term:

- You will develop your knowledge and understanding of key performance skills of drama.
- B. How to perform on different stage layouts
- C. Devise your own performance from a popular TV show creating new characters.

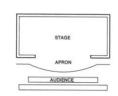
A- Key Words for this term

- Improvisation- create a scene without prior planning or a script.
- Characterisation presentation of a fictional character using gesture, posture and stance.
- Body Language- The conscious and unconscious movements and postures by which attitudes and feelings are communicated
- 4. Facial Expressions- How someone expresses their emotions using their face.
- Accent- The way you pronounce certain words, often showing where you are from.
- Tone- The emotion that you put into your voice.
- Blocking- Stopping the audience from being able to see / experience what is happening on stage
- Devising- Creation of an original performance in response to a stimulus.

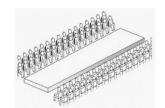
C- Why is blocking important in drama?

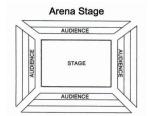
It teaches the actors to be aware of where/what way they are standing on stage and make sure they are always in the audience's sightlines.

- <u>Write the definition for these four stage layouts, where the entrances and exits happen and what (if any) set/scenery can be used.</u>
- <u>1</u> End On- Audience face one side of the stage. Numerous entrances and exits. Large scenery and set can be used.
- Thrust-Audience in front and around 3 sides. Entrances and exits happen on the main stage and through the audience. Set/Scenery on the main stage only.
- <u>Traverse-</u> The audience are around 2 sides. There are 2 entrances and exits. Set can be used but cannot be too high to obstruct sightlines of the audience.
- In The Round/Arena- The audience are on every side of the stage. There are entrances and exits around the audience. No large sets can be used.









C- Thinking questions.

- 1. How am I showing my character?
- 2. What is my body language?
- 3. How is it different to my normal?
- 4. What is my character feeling?
- 5. Do my facial expressions match this?
- 6. What is my posture like?

- 7. How do I walk?
- 8. What implications are there for blocking?
- 9. What are the positives for each stage?
- 10. What are the negatives for each stage?
- 11. Which stage layout do you like the best? Why?



Year 7 Knowledge organiser Topic: Lights, Camera, Action!



What we are learning this term:

- A. You will develop your knowledge and understanding of key performance skills of drama.
- B. How to perform on different stage layouts
- C. Devise your own performance from a popular TV show creating new characters.

Key Words for this term

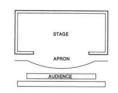
- 1. Improvisation-
- C presentation of a fictional character using gesture, posture and stance.
- 3. B L The conscious and unconscious movements and postures by which attitudes and feelings are communicated
- 4. Facial Expressions-
- 5. A The way you pronounce certain words, often showing where you are from.
- 6. T The emotion that you put into your voice.
- 7. Blocking-
- 8. D Creation of an original performance in response to a stimulus.

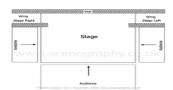
C- Why is blocking important in drama?

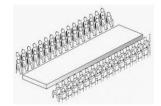
It teaches the to be aware of where/what way they on stage and make sure they are in the audience's

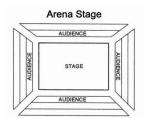
Write the definition for these four stage layouts, where the entrances and exits happen and what (if any) set/scenery can be used.

- 1 End On-
- <u>2</u> Thrust-
- 3 Traverse-
- 4 In The Round/Arena-









Thinking questions.

- 1. How am I showing my character?
- 2. What is my body language?
- 3. How is it different to my normal?
- 4. What is my character feeling?
- 5. Do my facial expressions match this?
- 6. What is my posture like?

- 7. How do I walk?
- 8. What implications are there for blocking?
- 9. What are the positives for each stage?
- 10. What are the negatives for each stage?
- 11. Which stage layout do you like the best? Why?

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