

Knowledge Organisers 1st Autumn Term

Science **History** Geography Art **PSHE** Latin Computing R.E. **Music P.E.**

Year 5

rganiser – Human Body – Science – Y	5	Liver	This organ removes taxins from the blood and makes blood	Pb
Key Vocabulary:	Key Knowledge:	100000	This is where oxygen gets	AA
The circulatory system is the system that moves blood around the body.	I know the main organs in the body.	Lungs	dioxide leaves the blood here.	
The respiratory system is the set of organs that allows a person to breathe and exchange oxygen and carbon dioxide in the body.	I understand how the heart functions.	Small and large intestines	This is where the body absorbs food and water into the blood.	ų
A band of tissue in the body that has the ability to contract, producing movement in parts of the body.	I understand the difference between the circulatory and respiratory systems.	Heart	This pumps blood to all parts of the body.	
We breathe in oxygen which is then transported around the body by red blood cells. In the human body, the oxygen	I understand the importance of blood and can explain why we need it.	Brain	This control most of the things your body can do.	
Your blood carries carbon diaxide to your lungs	I understand the function of the lungs and the	-	These help the body to	
Veins carry blood back towards the heart.	energy of showing on the rungs.	Kidneys	get rid of waste and they	
Arteries carry blood away from the heart.	Diseases caused by Smoking		4/10/2016/	
Tiny blood vessels that carry blood to the individual cells - they join the arteries to the veins	Concer e.g. throat, lungs or mouth cancer	Stomach	This mixes food with acid and gastric juices. It starts to break down food.	طم
The beating of the heart which can be felt by feeling the arteries of the wrist or neck.	Heart disease Asthma			
Arteries, veins and capillaries	• Heart failure		Superior VIII	
HUMAN RESPIRATORY SYSTEM Instal years Instal years	Composition of Bla	Ticuseld-		Pulmors artery Inf Lift anum May Any National Any National Any National Any National Any National Any National Any Any National Any Nat
	Key Vocabulary: The circulatory system is the system that moves blood around the body. The respiratory system is the set of organs that allows a person to breathe and exchange oxygen and carbon dioxide in the body. A band of tissue in the body that has the ability to contract, producing movement in parts of the body. We breathe in oxygen which is then transported around the body by red blood cells. In the human body, the oxygen Your blood carries carbon dioxide to your lungs which is then breathed out. Veins carry blood back towards the heart. Arteries carry blood away from the heart. Tiny blood vessels that carry blood to the individual cells - they join the arteries to the veins. The beating of the heart which can be felt by feeling the arteries of the wrist or neck. Arteries, veins and capillaries The sector area were around the section of the wrist or neck. Arteries, veins and capillaries	The circulatory system is the system that moves blood around the body. I know the main organs in the body. The respiratory system is the set of organs that allows a person to breathe and exchange oxygen and carbon dioxide in the body. I understand how the heart functions. A band of tissue in the body that has the ability to contract, producing movement in parts of the body. I understand the difference between the circulatory and respiratory systems. We breathe in oxygen which is then transported around the body by red blood cells. In the human body, the oxygen I understand the importance of blood and can explain why we need it. Your blood carries carbon dioxide to your lungs which is then breathed out. I understand the function of the lungs and the effects of smoking on the lungs. Veins carry blood back towards the heart. Diseases caused by Smoking Arteries, veins and capillaries Cancer e.g. throat, lungs er mouth cancer Benchritis HUMAN RESPIRATORY SYSTEM More of dream arried way HUMAN RESPIRATORY SYSTEM Mark of unlary minst way FUNAN RESPIRATORY SYSTEM	Series of any interference of the wrist or neck. Inderstand the function of the wrist or neck. Arteries, veins and capillaries Interstand the wrist or neck. Inderstand the orter of the wrist or neck. Inderstand the orter of the wrist or neck. Interstand the function of the wrist or neck. Arteries, veins and capillaries Interstand the orter of the wrist or neck. Interstand the function of the wrist or neck. Interstand the function of the wrist or neck. Arteries, veins and capillaries Interstand the orter of the wrist or neck. Interstand the orter of the orter of the wrist or neck. Interstand the orter of the wrist or neck. Arteries, veins and capillaries Interstand the orter of the wrist or neck. Interstand the orter of the wrist or neck. Interstand the orter of the wrist or neck. Arteries, veins and capillaries Interstand the orter of the wrist or neck. Interstand the orter of the wrist or neck. Interstand the orter of the orter of the wrist or neck. Arteries, veins and capillaries Interstand the orter of the orter of the wrist or neck. Interstand the orter of the orter of the orter of the orter of the wrist or neck. Interstand the orter of the orter of the orter of the wrist or neck. Interstand the orter of the orter of the wrist or neck. Interstand the orter of the orter of t	ganiser – Human Body – Science – YS Liver from the body and makes blod The circulatory system is the system that moves blod around the body. This is where sorgen gets in the body. The respiratory system is the set of organs that allows a person to breather and exchange corgen and carbon dioxide in the body. I understand how the heart functions. A band of tissue in the body that has the ability to contract, producing movement in parts of the body. I understand the difference between the circulatory systems. I understand the difference of blood and can explain why we need it. This control must of the body can do. We breather in oxygen which is then transported around the body by red blood cells. In the human body, the oxygen. I understand the difference between the circulatory and respiratory systems. I understand the function of the lungs and the effects of smoking on the lungs. Veins carry blood back towards the heart. I understand the function of the lungs and the effects of smoking on the lungs. Diseases caused by Smoking. Veins carry blood back towards the heart. Diseases caused by Smoking on the lungs. The seake heart which can be fit by the disease is the carry blood to the individual cells - they join the arteries to the veins and capillaries Diseases caused by Smoking on the lungs. The weak down food. Yeins carry blood wave from the kells the carry blood to the individual cells - they join the arteries of the wrist or neck. Diseases caused by Smoking on the lungs. The wave for down the circ

Knowledge Organiser - Baghdad 900 CE - History - Y ear 5

Key Vocabulary	Definition
Mesopotamia	In the continent of Asia, between the River Tigris and the River Euphrates, there was a warm and pleasant region called Mesopotamia, meaning 'the place between two rivers'.
Cuneiform	Cuneiform is believed to be one of the oldest writing systems in the world. It was developed in Mesopotamia.
Civilisation	A civilisation is a nation, or group of people, that share a common culture, common laws, a common economy, and typically a common faith or religion.
'City of Peace'	Baghdad 900 CE was referred to as the 'City of Peace'.
House of Wisdom	The House of Wisdom was a place in Baghdad where texts were translated and where people came to learn and read. It is remembered as one of the world's greatest libraries.
Mongous	The Mongols (originally from Mongolia) were a tribe of nomads who rode on horseback across central and northern Asia.

Timeline of Baghdad: 762-1258

762 CE

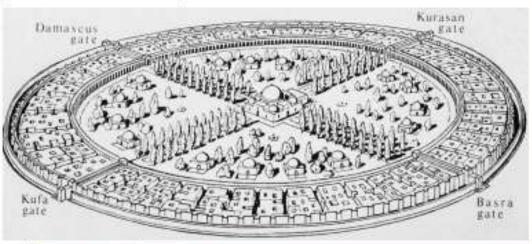
The construction of Baghdod began in 762 CE when Caliph Al-Mansur Iold the first brick

900 CE

Baghdad become a hugely significont city by CE 900 and people come from all over the world to vipit the city.

1258 CE

Mangal forces invaded and destroyed the city. Much of the population was killed.



Key People	What did they do?
Caliph Al-Mansur	A religious leader who is remembered for founding the city of Baghdad.
Al Tabari	He was an influential scholar, historian and translator/ interpreter.
Hulago Khan	A Mongolian ruler who invaded Baghdad in 1258 and destroyed the city.



Key Knowledge:

 I understand that an ancient civilisation began in Mesopotamia.
I know that Baghdad is a city that was built near the Tigris River, in Mesopotamia, a long time ago.
I understand the layout of Baghdad in 900 CE.
J understand that many people came to Baghdad from around the world to trade, teach and learn.
I know that the Mongol attack on Baghdad destroyed the city.

Scholars at an Abbasid Ilbrary Meanner of a Herici Banneton by Nebi at Analt, Baghdad (20)

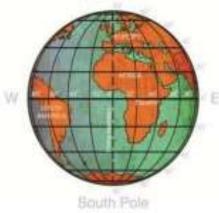
Knowledge Organiser- Spatial Sense - Geography - Year 5

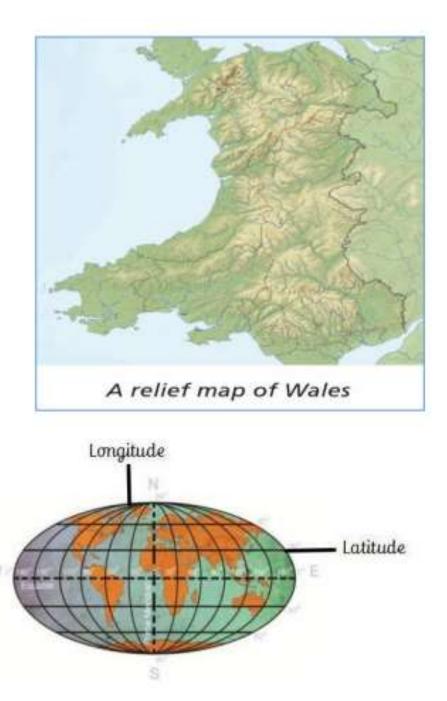
Key Vocabulary	Definition
Prime meridian line	An imaginary line that divides the earth into two sections to show the EASTERN and WESTERN hemispheres. It also used as the basis for world time zones.
Longitude	Imaginary lines parallel to the prime meridian line that help map makers locate places with accuracy. (Vertical lines)
Latitude	Imaginary lines parallel to the equator that help map makers to locate places with accuracy. (Horizontal lines)
Eastern Hemisphere	A term used to DESCRIBE places that are east of the meridian line.
Western Hemisphere	A term used to DESCRIBE places that are WEST of the meridian line.
Relief maps	A map that uses shading and colours to indicate the height of the land.

Key Knowledge:

I understand that map makers draw in lines to divide the world into secti	
I can locate places in the Eastern and hemispheres.	Western
I can use coordinates to locate places of	on a map.
I know how scale is used on a m	ap.
l understand that a relief map shows h the map.	eights on

North Pole



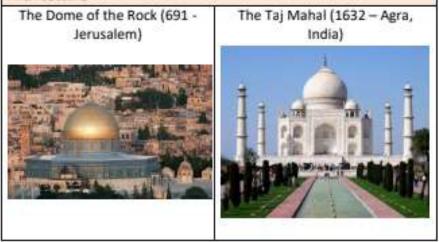


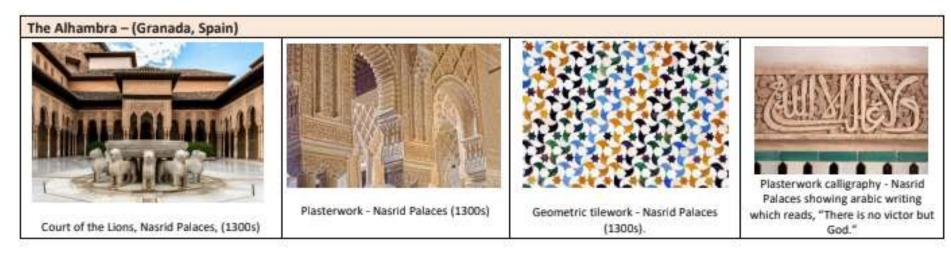
Knowledge Organiser - Islamic Art and Architecture - Visual Arts - Year 5

Key Vocabulary	Definition
Islamic art/architecture	Art or architecture which relates to the religion of Islam or the Islamic world.
mosque	A place of worship for Muslims.
minaret	A thin tower, usually part of a mosque, from which a person calls Muslims to prayer.
dome	The hollow, upper half of a sphere, often used in Islamic architecture.
calligraphy	Decorative handwriting.
geometric patterns	A pattern made out of geometric shapes such as triangles, squares, circles.
vegetal patterns	A pattern made out of shapes and lines which represent plants.
figural	Art work showing humans or animals.

Key Knowledge: I understand what Islamic art and architecture means. I understand that Islamic art uses calligraphy, geometric and vegetal patterns. I know common features of Islamic architecture. I understand how the Alhambra shows features of Islamic art and architecture. I can explore the Islamic art and architecture of the Taj Mahal.

Architecture







Latin Knowledge Organiser - Unit 1: Meet the Family

Key Vocabulary		
Latin	English	
quis es?	Who are you? singular	
quī estis?	Who are you? plural	
māter	Mother	
pater	Father	
fīlia	Daughter	
fīlius	Son	
īnfāns	Little child	
servī	Slaves	
sum	l am	
salvē	Hello singular	
salvēte	Hello plural	
omnēs	Everyone	
quis?	Who?	
quid?	What?	
Fēlīx diēs tibi sit	Happy birthday (may you have a happy day)	
grātiās tibi agō	I thank you	
fāmōsa	Famous	
euge!	Hurrah!	
sedāte!	Sit down! (imperative/bossy verb)	







Vibrissa is the cat



Greek Myth Perseus and Medusa

Key	Knowledge
-----	-----------

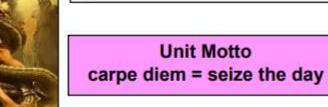
To understand the relevance of learning Latin.

To learn to say hello and goodbye.

To write simple sentences using the verb esse (to be).

To understand the difference between singular and plural.

To translate the description of a character from a Greek myth.



Grammar and Phonics

No capital letters are used in Latin apart from when you are writing someone's name. Don't translate names.

The letter v in Latin makes the sae sound as the letter w in English.

Male names end in -us, female names end in -a.

Knowledge Organiser- Computing Systems and Sharing Information – Computing – Year 5

Key Vocabulary	Definition
System	Computer systems are a combination of both hardware and software working together. Hardware is the physical components of a computer and software is the programs that run on a computer.
Input	An input is data or message that a device receives
Process	A process is what a device does with the message or data it receives.
Output	The output is the data that the device sends out after acting on the input.
IP Address	An IP address (short for internet Protocol address) is a label which is used to identify one or more devices on a computer network, such as the internet. It can be compared to a postal address. An IP address is a long number written in binary.
Collaboration	Working together with multiple people on a project with a shared end goal.
Algorithm	A set of instructions, written in chronological order, that are used to get a task done.
Packet	Information sent from device to device in small chunks. Each packet includes information about where the data is going to go, where it is from and how to interpret it.

Systems

 Systems are a set of things that work together to create a whole outcome.

device).



 Computer systems are made up of inputs

(something that sends a message to the device), processes (the way the device acts on the message) and outputs (something that is sent out by the

Working Together

- The internet can be used to help people collaborate on projects online, even when they are miles apart.
- Collaboration means working together on something to reach a shared goal.
- Shared 'cloud' functions and online drives can be used to store projects that multiple people can access at one time.



Key Knowledge:	
To know that computers can be connected together to form systems	
To recognise the role of computing systems in our lives	
To be able to experiment with search engines	
To understand and describe how search engines select results	
To know how search results are ranked	
To understand why the order of results is important and to whom	



Selecting and Ranking Search Results

Selecting Search Results

information that is most relevant.

-Search engines use programs known as <u>crawlers</u> to index the World Wide Web. -They 'crawl' websites for searchable information – they then store where it is found in a huge <u>index.</u> -Search engines select information from this index when we type in key words. -Searching for some search terms can bring many <u>millions of results.</u> -We need to make sure that our search terms are as <u>refined</u> as possible, in order to allow the search engine to select the -Web

-Search engines '<u>rank</u>' the web pages (the highest ranked page is at the top).

Ranking Search Results

 Search engines use <u>algorithms</u> to do this – algorithms look at a number of different factors and give web pages a score for each.

 The web page with the highest score ranks the highest.

 Some factors include if the search term is in the title of the page (high points) or if it appears in the paragraphs of the text on the page (lower points).

-Web designers consider algorithms when making when pages.

R.E. Year 5 Autumn 1 Islam Knowledge Organiser Enquiry: Why is Muhammad (PBUH) Important to Muslims?

Key vocabulary	Definition
Muhammad (Peace Be Upon Him)	The prophet who brought the word of God to the Muslim Holy book.
Islam	The name of the religion of Muslims.
Qur'an/Quran/Koran	The name of the Muslim Holy book.
The angel Gabriel/Jibreel	The name of the angel who brought the word of God to Muhammad (PBUH).
revelation	A revealing of facts – in holy books it means when God revealed his thoughts and ideas to a human.
prophet	A man or woman who shares the word of God

Key Knowledge

I know how some people become important in religions

I know Muhammad (PBUH) is the Islamic religious leader

I know how Muhammad (PBUH) became a religious leader

I can explain how Muslims worship

I know that religions can influence how people live



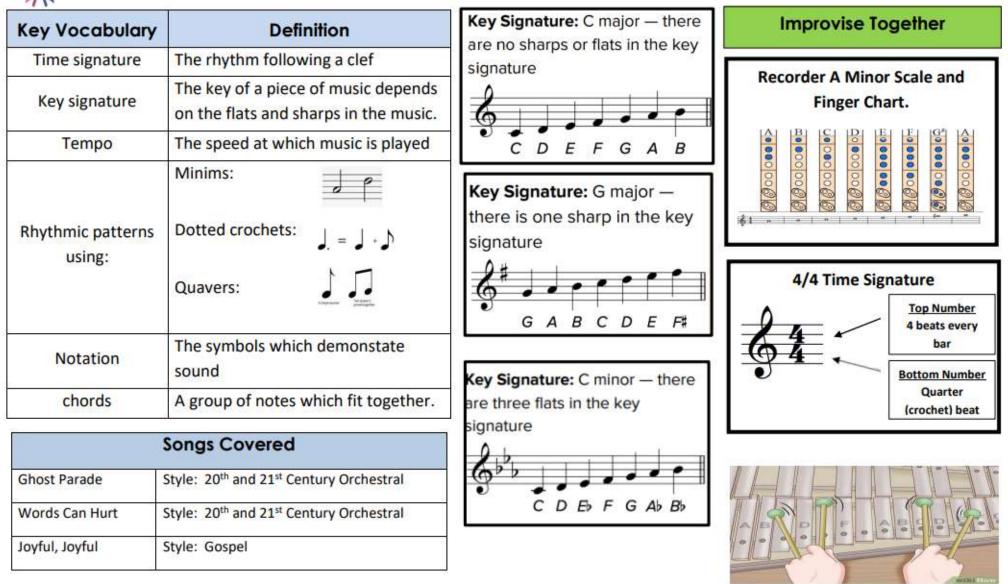


What makes an ordinary person become a very important religious leader? How did Muhammad (PBUH) change Arabia and then the world? Why is the Qur'an so important for Muslims? How do the teachings of Muhammad (PBUH) influence





Knowledge Organiser Music Melody and Harmony in Music Year 5 Unit 1





Knowledge Organiser – OAA – Year 5



Key Vocabulary	Definition
Cooperate	To work together towards the same goal.
Мар	A pictorial representation of an area.
Route	A way of getting from one point to another.
Orienteering	A sport in which people run through a series of waypoints (controls) to guide then

Skill Development

Keep the map set (or orientated) so that you know where you are on the map and which direction you need to travel. When turning, make sure the map does not turn, and stays 'set'.

To communicate and co-operate effectively with others

To follow a set route on a map

To record clues and decipher a code.

