

# Knowledge Organisers 1st Spring Term

Science

Geography

History

Art/DT

**French** 

**PSHE** 

Computing

RE

Music

PE

Class 3 – Year 5 & 6

#### Knowledge Organiser - Science - Year 5 - Life Cycles and Reproduction

Key Vocabulary:		
life cycle	development of an organism from birth through reproduction to death	
reproduce	to make again or make a copy of	
reproduction	the process of making a copy of	
asexual	non-sexual reproduction	
spore	seed released by a fungus	
cloning	to make an exact copy of the parent	
regeneration	the ability to replace lost cells or even lost body parts	
gametes	male or female germ cell needed for sexual reproduction	
internal fertilisation	sperm and egg join inside the body of the female parent	
external fertilisation	sperm and egg join outside the bodies of the parents	
embryo	a developing organism	
zygote	a fertilised egg	
gestation	the carrying of an embryo inside a female	
monocot	a flowering plant whose seed only contains one embryonic leaf	
stamen	the male reproductive organs of a plant	
pistil	the female reproductive organs of a plant	

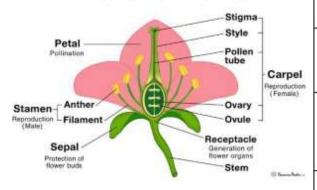


The life cycle of a frog



The life cycle of a chicken

# Parts of a Flower



#### Key Knowledge:

I know that plants can reproduce asexually.

I know the parts of a flowering plant and understand their function.

I understand seeds are dispersed by animals, humans, water, wind or the explosion of the seed pod.

I know about the life cycle and reproductive system of animals.



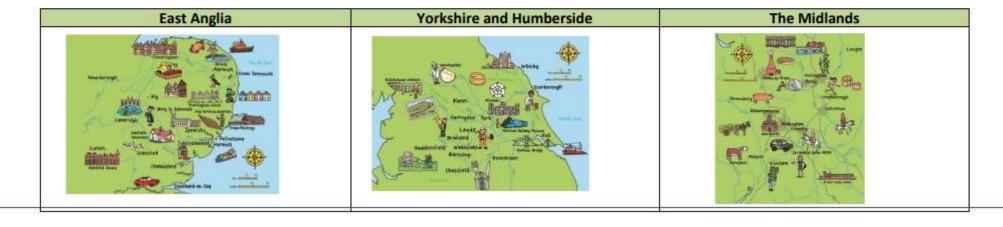


# Knowledge Organiser - East Anglia, The Midlands, Yorkshire & Humberside - Geography- Year 5

Key Vocabulary	Definition	
Industry	Activity where raw materials are changed into goods that can be used and traded.	
Arable farming	Farming where crops are planted, tended to and then harvested.	
Pastoral farming	Farming where animals are raised and used for food or other produce such as wool.	
Mining	Where a raw resource is extracted from the earth, for example, coal.	
National Park	An area protected by laws to ensure land is preserved.	
Viaduct	A type of bridge built across a valley to allow transport to cross from one side to another.	
Valley	The low-lying land between mountains or hills.	
Relief Map	A map showing the shape and height of land.	
Population	The number of people living in a specific area.	

	Key Knowledge:
	I know East Anglia is a region of the UK that is very flat.
	I understand marshland in East Anglia was drained leaving fertile land to grow crops.
	I know Birmingham is a large city in the Midlands and I can find out about it.
	I know Yorkshire is a large area to the North of England and can describe the features it has.
1	know The Ribblehead Viaduct and the Humber Bridge are two ways in which people have changed the landscape in Yorkshire and Humberside.

East Anglia	Includes Norfolk, Suffolk and Cambridgeshire  The Fens is a region of East Anglia that is often at or below sea level and is home to lots of wildlife  Known as 'Britain's bread basket'
Yorkshire and Humberside	<ul> <li>Yorkshire is a large area in the north of England</li> <li>North Yorkshire is the largest county in the UK</li> <li>The Ribblehead Viaduct and the Humber Bridge are two ways in which people have changed the landscape in Yorkshire and Humberside.</li> </ul>
The Midlands	<ul> <li>The Midlands nears 'land in the middle'</li> <li>The biggest city in the Midlands is Birmingham</li> <li>In the past, the Midlands had coal and iron mines</li> </ul>



#### Knowledge Organiser - The Industrial Revolution - History - Year Five

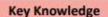
Key Vocabulary	Definition
Industrial Revolution	A time of great change in Britain between 1750 to 1900
Population	The number of people living in a particular place
Invention Something new which is created, can be an object or an idea	
Economy The system of how money is used within a particular country	
Agriculture The process of farming, including both growing and harvesting cro- raising animals, or livestock.	
Poverty The lack of basic human needs such as clean water, nutrition, education and shelter	
Industry The process of making products by using machines and factories	
Mass production The manufacture of a product in large numbers and at a low cos	

Pre-industrial Britain









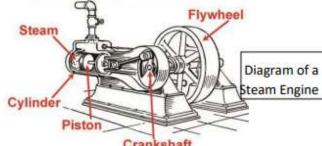
I know the 'Industrial Revolution' describes the change from a society based on hand manufacturing and human or animal power, to a society based on machinery in factories.

I know the steam engine was one of the most important inventions of the industrial revolution.

I understand the how goods were transported in the Industrial Revolution.

I know industrial revolution caused cities to grow rapidly and that this. was called urbanisation

I understand Victorian children played a role and had dangerous jobs during the industrial revolution.



1830

The first ever passenger train takes people from Liverpool to Manchester 1954

The first underground railway is built in London, giving Birth to the 'tube'

# 1761

The Duke of
Bridgewater
built Britain's
first canal.

James Hargreaves
invented the spinning
jenny, making
spinning thread much
quicker and more
efficient.

1764

James Watt

designed the

first successful

steam engine.

1764

Richard Arkwright built a mill and filled it with water frames. It was claimed to be the world's first ever factory.

1776

Watt and Boulton

designed and built

the first successful

steam engine.

1771

1779

1880

The Education Act

was passed, mak-

ing school comput-

sory for all chil-

dren aged 5- 10.

The first bridge made from cast iron is built across the River Severn. 1825

George Stephenson invented the first passenger locomotive. 1838

The SS Great Western, the first steamship to cross the Atlantic, leaves Bristol

# Knowledge Organiser - Chinese Art - Visual Arts - Year Five

**Paintings and Calligraphy** 

Key Vocabulary	Definition	
dynasty	A line of rulers of a country from the same family. Parts of modern-day China were ruled by different dynasties for thousands of years.	
Ming dynasty	Chinese dynasty from 1368-1644 C.E.	
calligraphy	Decorative handwriting	
character	Chinese writing symbols	
rice paper	Thin paper used for Chinese painting.	
scroll	A roll of paper or silk for writing or painting on. When rolled up, stored in a box.	
hand scroll	A long, narrow, horizontal scroll, viewed by being held by the viewer, maybe on a table.	
hanging scroll	A scroll displayed vertically on a wall for a short period of time.	
Ink stick A solid stick of ink.		
nk stone A stone for grinding ink on.		
ceramic	Fired clay.	
porcelain	A white translucent ceramic.	
Ming ware	Ming dynasty ceramics.	
cobalt blue	A deep blue pigment	

Finches and
Bamboo Early 12<sup>th</sup>
century
Handscroll - ink and colour on silk



Fisherman (with poem) c.1350 Handscroll - ink on paper

# Key Knowledge I understand which materials are used to make Chinese calligraphy and paintings.

I know Chinese paintings often use only black ink and are usually of things found in nature.

I know calligraphy is a very important form of Chinese art.

I understand the influence of Chinese porcelain in Europe.

#### Ming Ware



Early 15<sup>th</sup> century, Porcelain with cobalt blue



Late 17<sup>th</sup> century Porcelain with cobalt blue, for European market



Summer Mountains c.1050 Handscroll ink and colour on silk

# Knowledge Organiser Year 6 French Unit 8: Les vêtements

Key Language	English	
un t-shirt	a t-shirt	
un pantalon	some trousers	
un chapeau	a hat	
une veste	a jacket	
une jupe	a skirt	
une chemise	a shirt	
des chaussures	some shoes	
des lunettes de soleil	some sunglasses	
Qu'est-ce que tu veux?	What do you want?	
Je voudrais	I would like	
C'est comment?	what is it like?	
c'est moche/ C'est beau	It's looks rubbish/fine	
C'est trop grand	It's too big	
C'est trop petit	It's too small	
C'est trop cher	It's too expensive	
et/ mais	and/but	
je porte	I'm wearing	
rose/ orange/ marron	pink/orange/brown	
rouge(s) /jaune(s)	red/yellow	
vert(e)(s)/ bleu(e)(s)	green/blue	
noir(e)(s)/ blanc(he)(s)	black/white	
soixante (etc)	60 etc	
soixante-dix (etc)	70 etc	
quatre vingts (etc)	80 etc	
C'est combien?	How much is it?	
Ça coute soixante-six euros	It's 66 euros.	



#### **KEY QUESTIONS**

Qu'est-ce que tu veux? What do you want?

Qu'est-ce que tu portes? What are you wearing?

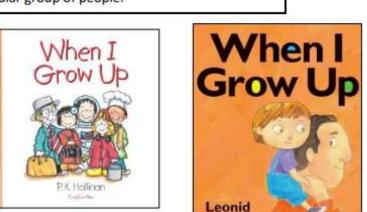
C'est comment? What is it like?

C'est combien? How much is it?



### Knowledge Organiser - PSHE - Dreams and Goals - Year Five

Vocabulary		
Determination	The effort required to do something and keep doing it until the end, even if it is hard.	
Perseverance	The continued effort to do or achieve something despite difficulties, failure, or opposition.	
Motivation	Enthusiasm for doing something.	
Fears	To be afraid of someone or something.	
Hopes	To want something to happen.	
Profession	People who do a particular type of work, considered a group.	
Contribution	To achieve something together with other people.	
Society	All the people in a country, or in several similar countries, can be referred to as a society.	
Culture	The way of life of a particular group of people.	



Gore













### **Key Knowledge**

I know about a range of jobs carried out by people I know and have explored how much people earn in different jobs.

I can identify a job I would like to do when I grow up and understand what motivates me and what I need to do to achieve it.

I can describe the dreams and goals of young people in a culture different to mine.



#### **Reflective questions**

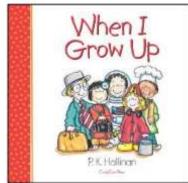
Ask me this...

How does it feel to communicate in different ways?

How does it feel to be part of team working towards a shared goal?

What skills do we need to develop to help us build our future?





#### Knowledge Organiser - Data and Information - Flat-file Databases - Computing - Year 5

Vocabulary	Definition
Information	<b>Information</b> is the processed data on which decisions and actions are based.
Data	Computer data is information processed or stored by a computer. This information may be in the form of text documents, images, audio clips, software programs, or other types of data.
Database	A database is an organised collection of structured information, or data, typically stored electronically in a computer system.
Criteria	Categories used to find specific data.
Record	Data that is stored. Also a term used to describe the process of storing and keeping data.
Field	A specific area within a data set.
Compare	To find differences or changes between two or more data sets.
Filter	A software within a computer that reads data in order to then place them in different criteria.

Key Knowledge:	
To navigate a flat-file database.	
To explain that a computer program can be used to organise d	ata
To explain that tools can be used to select data to answer que	stions
To explain that we present information to communicate a mes	sage
To outline how 'AND' and 'OR' can be used to refine data selec	ction

#### Overview

#### Flat-File Databases

-<u>Data</u> is row numbers and figures. <u>Information</u> is what we can understand from analysing data.

 There are lots of different ways that we can collect, log and interpret data, including by using <u>databases</u>.

 -Databases organise data so that it can be easily added to, amended, stored and accessed. Computer databases can allow large amounts of data to be sorted, filtered and edited more easily.

#### Presenting Data

 -Data can be shown visually, by using graphs and charts. This allows users to quickly and easily find answers to the questions that they

need. It helps the user to easily see trends and to sequence information.

-Charts and graphs can
be created by selecting the charts icon and
selecting which fields to display in the x-axis
and y-axis.

#### Types of Databases

**Database:** A database is a collection of organised data that is easily stored and used.

Databases often structure data in logical ways (e.g. in columns, rows and tables) so that it can be accessed by those who need it easily. Databases are made up of individuals records, which contain information in different fields (categories).

-Paper Databases: Paper databases require the creator to manually write in individual records, and to sort the records in an appropriate order. Paper records can still be useful in small databases, particularly where information is not changing and does not need to be amended frequently. However, most large databases are now stored on computers. -Computer Databases: Many computer programs allow us to create databases, e.g. j2data or Microsoft Excel.

Computer databases have become more popular than paper databases, as data can

be easily and quickly added or removed, sorted, filtered, edited, or viewed at any time.

#### Using a Computer Database

-Computer databases often contain large amounts of data. We can find the data that we need by using the 'search', 'filter' and 'sort' functions. Search functions allow us to type in the exact word's that we are looking for. This can be useful if we are looking for a particular record.

-If we are looking for records that share certain information we can filter out data by different fields. For example, we filer in the 'age' field for all students aged 23. The database will then present only the students aged 23.

-We can also sort records by the data in particular fields.
e.g. we may sort by the students' ages, from youngest to oldest. The youngest student will then appear at the top.



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# R.E. Year 5 Spring 1 Sikhism Knowledge Organiser Enquiry: How far would a Sikh go for his/her religion?

Key vocabulary	Definition	
Kalsa	The Sikh community who follow the rules of the five 'Ks'.	
Guru Nanak	The founder of Sikhism (the person who started Sikhism).	
Guru	Teacher	
The Langar	The food served by volunteers at the Gurdwara.	
The Golden Temple Harminder Sahib	Harminder Sahib is the real Sikh name for The Golden Temple. It means house of God. It is located in the city of Amritsar, Punjab, India	
Gurdwara	Sikh temple	

Key Knowledge		
I know what a commitment is.		
I know the 5 key beliefs of Sikhism are: God is in e serve others, everyone is equal, share what you h	The state of the s	
I know that Sikhs are willing to sacrifice their time even life for the well-being of others.	, effort, money, energy and	
I know that Sikhs believe it is a good thing to trea with people. Sikhs see the Langar as an opportun sacrifice.	· (C. )	
I know that there are different levels of commitm	ent and I can explain how	

committed I am to various interests.

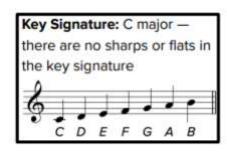


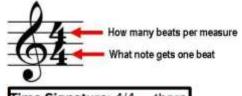




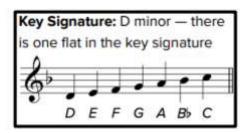
The Langar – a community kitchen giving free meals to visitors

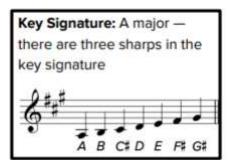
Key Vocabulary	Definition
Time signature	The rhythm following a clef
Key signature	The key of a piece of music depends or the flats and sharps in the music.
Minim	
Crotchet	
Dotted crotchet	<u></u>
Quaver	) J
Articulation change	From spikey to flowy, to staccato to legato etc.
Melodic change	Levels of sound in music (soft to loud)
Timbre change	From soft to harsh
Funk	A mixture of soul, jazz, rhythm and blues





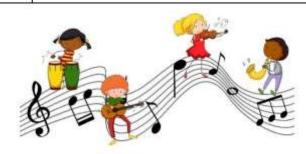
Time Signature: 4/4 — there are four crotchet beats in a





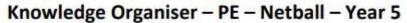
#### Songs covered

- · You can see it through
- The octopus side
- Connect











Key Vocabulary	Definition		
Footwork	The first foot to touch the ground when receiving a ball is the landing foot.  The landing foot must remain on the ground, the other foot may be moved in any direction, pivoting on the landing foot.		
Held ball	A player has 4 seconds to shoot or pass.		
Rebound	A player attempts to shoot but the ball hits the ring and comes back into play		
Free pass	Awarded to a team when the opposition commits a foul.		
Intercept	To cut out a pass to gain possession.		

Skill Development	Skill	Deve	lopment
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To develop passing and moving to maintain possession.

To use a variety of attacking skills to lose a defender.

To move into and create space to support a teammate.

To use defending skills to gain possession.

To develop accuracy when shooting under pressure.

To apply skills, tactics and principles in a game situation.

Skills		
Pivot		
Passing		
Shooting		