

# Knowledge Organisers 1<sup>st</sup> Spring Term

Science

Geography

History

Art/DT

French

PSHE

Computing

RE

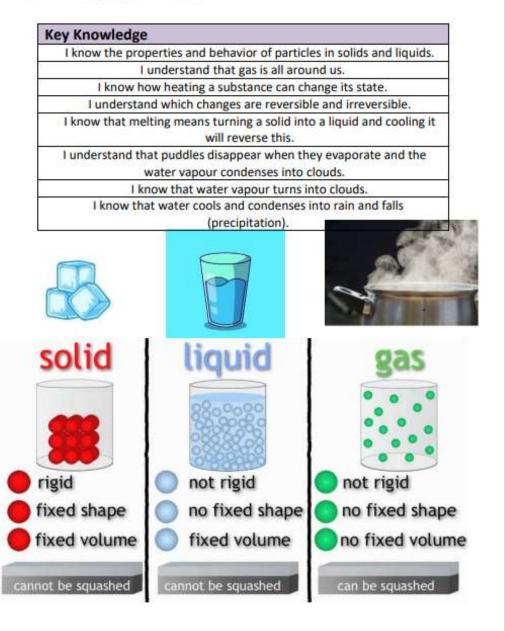
Music

ΡE

Year 4

### Knowledge Organiser - Science - Year 4 - States of Matter

	Vocabulary			
State	states of matter are solids, liquids and gases			
Particle	a small portion of matter			
Melt	when something becomes a liquid through heating			
Cool	bring to a lower temperature			
Thermometer	instrument for measuring temperature			
Evaporation	process of turning liquid into vapour			
Condensation	vapour or gas turns into a liquid			
Reversible	When materials can be changed back to how they were before the reaction took place.			
Irreversible	This is when materials cannot be changed back to how they were before.			
Soil Water	Precipitation Transmiration Runott Subsurface Outflow			



# Knowledge Organiser- Eastern Europe –Geography- Year 4

Key Vocabulary	Definition		
Balkans	South of the Danube are the Balkan countries, along the Balkan PeninsuLa. These include Croatia, Albania, BosNia- Herzegovina, Bulgaria, Macedonia, Montenegro, Romania, Serbia, Slovenia and Kosovo.		
Baltic Countries	These are located on the Baltic Sea: Latvia, Lithuania, Estonia		
Cyrillic	An Alphabet they use in Russia, named after St. Cyril who translated the Bible into the Russian language		
human geography	The geographical study of people and their communities, cultures, economies, and interactions with the environment.		
physical The geographical study of processes and patterns in the natural environment like the atmosphere, hydrosphere, biosphere, and geosphere.			
steppe	GrassLand plains without trees apart from those near rivers and lakes.		

6	ey Knowledge
	I know that Eastern Europe covers a large area, with many countries, people, cities and rivers. I know it has a long border with the continent of Asia
	I know that the biggest country in Eastern Europe is Russia
	I know that there are four seas that surround Eastern Europe. They are: The Caspian Sea, The Black Sea, The Baltic Sea and The Adriatic Sea
	I know that the highest mountain range in Europe is in Russia- the Caucasus Mountain and that the highest mountain in this range is Mount Elbrus in Russia
	I know that there are some very long rivers in Eastern Europe, including the Volga and the Daube
	I know that there is conflict in Eastern European between Russia and the Ukraine.

	Russia	Example of			
Capital	Moscow	Cyrillic			T with a
Population	144,463,451			<u>Rivers and</u>	- ATTENS
Currency	Russian ruble (P) (RUB)	alphabet:		<u>Mountains in</u>	
			Eastern Europe is	Eastern Europe:	
		АБВГДЕ	surrounded by	Volga River	the second second
Flag		жзийк	four seas:	Ural River	
	7	лмноп	Caspian Sea	Danube River	
		РСТУФ	Black Sea	Caucasus	Total The state of
	Major Cities	ХЦЧШЩ	Adriatic Sea	Mountains	ter the set of the set
Moscow	Russia	ЫЭЮЯ	Baltic Sea	Mount Elbrus	the new port the
St	Russia			Carpathian	1
Petersburg	0			Mountains	1 1 month D
Dubrovnik	Croatia				Port E. E.
Warsaw	Poland				Core Knowledge
					The share schedule to be a

# Knowledge Organiser – Life in Ancient Rome – History – Year 4

Key Vocabulary	Definition		
Roman Empire	A huge empire controlled by Rome, lasting between 509 BCE and 476 CE.		
Republic	A government where the people are in charge, rather than a king.		
Mediterranean	The countries that surround the Mediterranean sea. These were once dominated by Rome.		
Latin	The language of Rome, spoken across the Roman Empire.		
Pompeii	A small town in Southern Italy that was totally destroyed by a volcano in 79 CE.		
Aqueduct	A stone trough to carry water across the country into Roman towns.		

#### Key Knowledge

I know where Ancient Rome originated from

I understand that Rome started as an absolute monarchy and became a republic

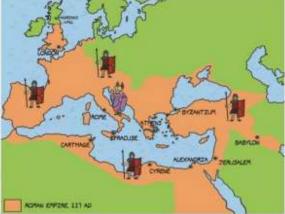
I know that Pompeii, a wealthy town on the Italian coast, was destroyed by a volcano. Archeologists used the remains to find out about life in Ancient Rome.

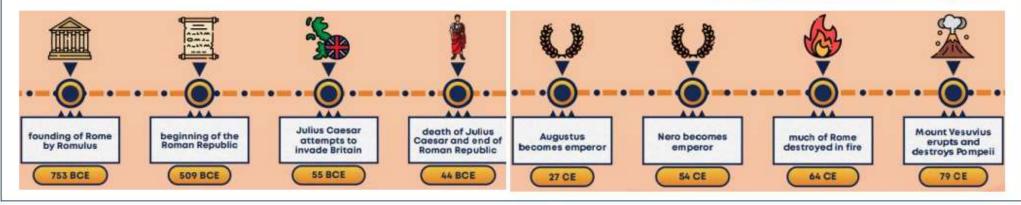
I know about some of the leisure activities that took place in Ancient

Rome including baths, the forum, chariot races and gladiator fights

I know that the Romans spoke in Latin and that this language has influenced many other languages that we speak today







# Knowledge Organiser- Design - Visual Arts - Year Four

Key Vocabulary	Definition	
design	We use the word 'design' to refer to the way the artist made the elements of a piece of art work together	
space The distance within, around and be things in art.		
value	The lightness or darkness of a colour	
Two-dimensional	An object with just height and width dimensions	
Three-dimensional	An object with three dimensions – height, width and depth	
texture	How something feels or how something loo like it feels	
collage Collage is an artwork made up of ass materials glued to a paper, board, or canvas		
form	Elements of shape that make up an artwork	

I know what collage is.	_
I can describe 3D sculptures by looking at the shap	e and form
I understand how line drawings are creat	ed.
I know the difference between 2D and 3D	art.

Key Knowledge





Oval circle by Barbara Hepworth



Tawny Owl by Alice Lee



Foxy and Frankie by Ben Nicholson



Bird and Children By Paul Klee



The fall of Icarus by Henri Matisse



The Three Musicians by Pablo Picasso

# Knowledge Organiser Year 4 French Unit 9: Les fêtes

Key Language	English	
Le Nouvel An	the New Year	
la Fête des Rois	Epiphany	
La Saint-Valentin	St Valentine's Day	
Pâques	Easter	
La Fête Nationale	Bastille Day	
Noël	Christmas	
C'est le premier janvier	it's on January 1st	
Mon anniversaire	My birthday	
Qu'est-ce que tu veux?	What do you want?	
Je voudrais	I would like	
un cadeau	a present	
un vélo	a bike	
un jeu	a game	
un livre	a book	
un ballon	a ball	
un Père Noël en chocolat	a chocolate Santa	
un oeuf de Pâques	an Easter egg	
trente, trente et un, trente- deux etc	30, 31, 32 etc	
quarante, quarante et un, quarante-deux etc	40, 41, 42 etc	
cinquante, cinquante et un, cinquante-deux etc	50, 51, 52 etc	
soixante, soixante et un, soixante-deux	60, 61, 62 etc	



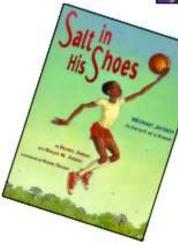


# Knowledge Organiser – PSHE – Dreams and Goals - Year Four

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.		
Cooperation	To act or work together with another or others for a common purpose.		
Fears	To be afraid of someone or something.		
Hopes	To want something to happen.		
Dream	Something that you hope for very much, although it is not likely to happen.		
Goals	An aim or purpose.		
Resilience	To be able to recover quickly from difficulties; toughness.		
Commitment	To be dedicated to a cause or activity.		









I understand that sometimes hopes and dreams do not come true and that this can hurt.

I know how to make a new plan and set new goals even if I have been disappointed.

I know how to work out the steps to take to achieve a goal, and can do this successfully as part of a group.





**Reflective questions** Ask me this...

What dreams or hopes do you have for the future?

How will you know when you have achieved your goal?

What can help when you feel hurt or disappointed?

## Knowledge Organiser- Data Logging - Computing - Year 4

Key Vocabulary	Definition	
Deta	A collection of numbers that can be analysed.	
Input Device	The information put into a computer of device	
Sensor	A device which detects, measures and/or records information	
Data point	A point where data is recorded	
interval	A space or gap between two things.	
Import	Transfer data into a file or document	
Export	Transfer data in a format that can be used by other programs.	
analyse	Discover or reveal something	

#### Data Recording

-One way for us to record data is by writing it down. Some data loggers can also record data themselves, which we can download later. Computers can also help us to record data, e.g. by connecting our data loggers to computers and opening data logging software.

 An advantage of this is that computers can record data automatically, meaning that someone does not need to sit waiting for a long period of time. Data loggers can be set to measure at different intervals (points in time).

-Data logger software can also be used to show different charts and graphs. This can save the user a lot of time!







be able to explain that data gathered over time can be used to answer question	ans.
be able to use a digital device to collect data automatically	
be able to explain that a data logger collects 'data points' from sensors over t	ine."
be able to use data collected over a long duration to find information	
identify the data needed to answer questions	
use collected data to answer questions	

#### Data Collection

Asking Quartions: Data aothered over time can be used to anware important questions.

For example, the class register can be used to answer questions about children's attendance. Before collecting data, we need to carefully consider which questions we are trying to answer.



-Sensora: Our senses (sight, bearing, smell, taste, touch) detect things in our environment. Computers have input device | can be used to detect

sensors which help them to sense things.

and record data. Octo loggers often

built into them. They



Some examples are: -Microphones (sound) -Camera (light) Touchscreen (touch)

contraine

-A heat sensor (to record the temperature)

Data Loggers: Data loggers have wrisin

-A light senior (to record brightness)

A sound sensor (to record the noise).

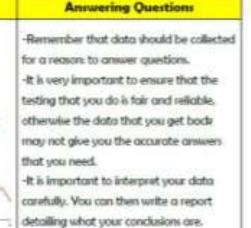
#### Analysing Data

When scientists collect data, they usually store it so that it can be analysed at any time. The data can also be shared so that other scientists can use it.

 Tables and graphs can be used to present. the data in a useful way for reading and

understanding it. It is important to be able to see trends as dearly

as possible.



# R.E. Year 4 Spring 1 Knowledge Organiser

# Enquiry: Could the Buddha's teachings make the world a better place?

Key vocabulary	Definition			
Buddhism	Buddhism is the world's fourth-largest religion with over 520 million followers, or over 7% of the global population, known as Buddhists.			
Buddha	Awakened or enlightened one.			
Bodhi	Tree under which Buddha reached enlightenment: known as the tree of wisdom.			
8 Fold Path	The 8 fold path is Right Understanding, Right In Right Speech, Right Action, Right Livelihood, Ri Effort, Right Mindfulness and Right Concentrat			
Enlightenment	To find the truth about life			
Siddhatta	Was a monk, philosopher, teacher and religious leader on whose teachings Buddhism was founded.			

#### Key Knowledge

I know what makes our world wonderful.

I can talk about changes that have happened in my live and can explain how it makes me feel.

I know that the Buddha says people must accept change and that if you treat others with kindness, they will be happy.

I know that the Buddha told people to live a good life without being selfish or greedy and that it would make the world a better place.

I can explain what I would do to try and make the world a better place.







The Buddha taught us to accept that everything changes.

If we are kind and loving to others, this will make others happy.

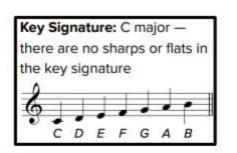


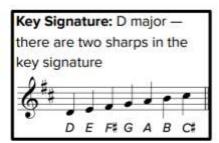
### KNOWLEDGE ORGANISER MUSIC

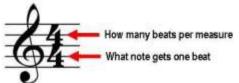
#### COMPOSE WITH YOUR FREENDS

YEAR 4 UNIT 8

Key Vocabulary	Definition
Key signature	The key of a piece of music depends on the flats and sharps in the music.
Minim	
Crotchet	
Dotted crotchet	
Quaver	♪
Melody	A succession of musical tones
Dynamics	Levels of sound in music (soft to loud)
Disco	A genre of dance music
Folk	Music that originates from traditional cultures
Orchestral	Music created by an ensemble of instruments
Home note	Where the music feels like it finishes
Tonic	The key note of the music







Time Signature: 3/4 — there are three crotchet beats in a bar

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

# Songs covered

- Bringing us together
- Old Joe Clark
- Dance with me





# Knowledge Organiser – PE – Basketball – Year 4



Key Vocabulary	Definition
Dribble	Moving with the ball by bouncing it with one hand.
Double Dribble	THIS IS NOT ALLOWED! – Dribbling the ball with 2 hands at once. Possession is given back to the opposing team.
Travelling	THIS IS NOT ALLOWED! – Moving with the ball without dribbling it. Possession is given back to the opposing team.
Chest pass	When someone passes the ball from chest height with no bounce.
Bounce pass	When someone passes a ball with a bounce.

# **Skill Development**

To develop the attacking skills of dribbling. To protect the ball when dribbling against an opponent. To develop passing skills. To use defending skills to delay an opponent. To develop a shooting technique. To apply rules and tactics in game situations.

