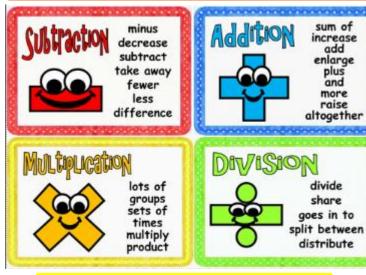


Year 2 Maths Knowledge Organiser



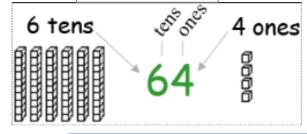
5 10 15 20 25 30 35 40 45 50

10 20 30 40 50 60 70 80 90 100

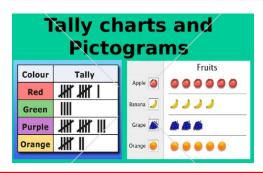




Place Value



Number Words				
1	one		11	eleven
2	two		12	twelve
3	three		13	thirteen
4	four		14	fourteen
5	five		15	fifteen
6	six		16	sixteen
7	seven		17	seventeen
8	eight		18	eighteen
9	nine		19	nineteen
10	ten		20	twenty



Commutative Law

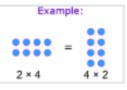
The commutative law means numbers can be added or multiplied in any order without affecting the answer.

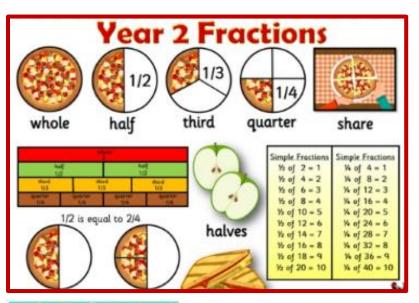
For example: 2 x 4 x 5 is the same as 5 x 4 x 2

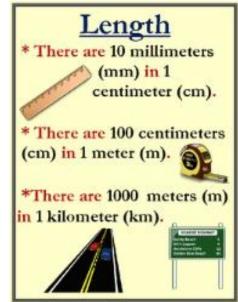
OR When adding 26 + 30 + 4, the commutative law lets you rearrange the 30 and the 4 to get 26 + 4 + 30 so that we can add the 26 and 4 first.

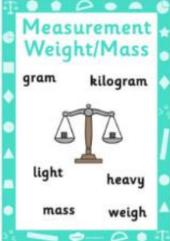


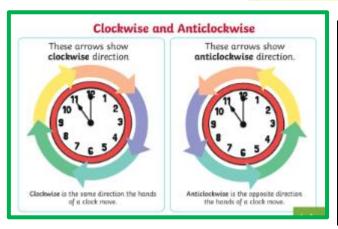
Subtraction and division are not commutative





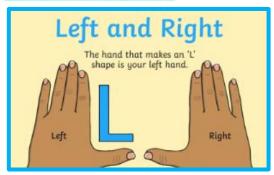






Position and direction
Whole turn
Half turn
Quarter turn

Three quarter turn





How to solve problems

Read the problem carefully.

Underline key words and numbers.

Cross out what you don't need.

Choose the right operation(s).

Solve the problem. Write out the sum and do the calculation.

Answer the question. Show your working out.

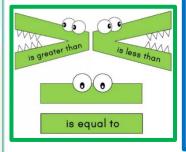
Check your work. Use the inverse operation(s).



Measuring Capacity

1000ml = 1l





24 hours = 1 day 7 days = 1 week

Time

60 seconds = 1 minute

60 minutes = 1 hour

365 days = 1 year

52 weeks = 1 year

Year 2 English Knowledge Organiser

Handwriting must use the correct formation, should be cursive and correctly spaced.

The quick brown fox jumps over the lazy dog. Baa baa black sheep, have you any wool? Yes sir, yes sir, three bags full.

Writing an Informal Letter

- -Informal letters use familiar language and may be for example a thank you letter or a postcard from holiday
- -Sender's address is written at the top right corner
- -Date is added at the start
- -The letter starts with Dear...
- -The letter ends with from... or love from...

Narrative Writing

- -Interesting opening
- -Exciting vocabulary
- -Accurate punctuation
- -Characters included and described
- -Setting included and described
- -Events and actions are described
- -Story is written in sequence
- -Story ends clearly



Writing Instructions

- -Title is clear- How to...
- -List of ingredients or equip-
- -Instructions are numbered
- -Instructions are short and clear
- -Imperative ('bossy') verbs -Diagrams can be used



Information Writing Guy Fawkes

-Clear title

-Opening paragraph gives overview of topic

-Subheadings or paragraphs are used

~Information is clear and comes from different sources

-May include pictures and diagrams

Who was Guy Fawkes?

Guy Fawkes was born in 1570 in York, England.

He joined a group that wanted to use gunpowder to blow up the Houses of Parliament in London, killing King James I and his government.

'The Gunpowder Plot' group was led by Robert Catesbu

They were found out on 5th November, 1605.

What was the need for 'The Gunpowder Plot'?

King James had different religious beliefs to Guy Fawkes and his group. They felt that the King was treating them unfairly.

Creating Bonfire Night

- · King James wanted to celebrate because he survived the planned attack.
- · He officially made the 5th of November Bonfire Night
- · Straw dummies were burned to show that no one could get away with hurting the king.

What happened to Guy Fawkes and the other plotters? Guy Fawkes was the expert and was found in charge of the gunpowder. He was questioned and tortured, then confessed.

All the men involved were imprisoned and were going to be killed for treason - plotting to kill

Before Guy Fawkes could be hanged, he broke his neck and died in 1606.



Writing a Recount

Introduction giving overview Past tense

Written in time order Use time connectives First or third person Include interesting detail

- Finally
- Later
- Meanwhile
- Next
- Firstly
- Then
- Eventually

Year 2 English Knowledge Organiser

A SENTENCE must make sense. It can be written as a statement, a question or an exclamation.

Statement

A statement is a sentence that states a fact.



This is a key.

Question

A auestion is a sentence that asks for information. Questions often begin with who. where, what, why and when.



What is this?

Exclamation

An exclamation expresses strong feeling, such as excitement or anger.



Look – my key!

Command

A command is an order. It tells somebody to do something.



Give me the key.

Spelling Grammar and Punctuation

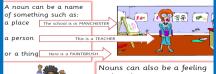
If you want to write exciting sentences which grip the reader you will need to use these types of WORDS





He ran away quickly.





such as happiness or quality such as goodness

Adjectives are describing words such as happy, shiny or bouncy. They give more information about a



sad boy

Noun

A noun phrase is a group of two or more words that contains a noun but no verb.



the flowers

Sentences and words must be PUNCTUATED correctly.



Commas to separate items in a list



Apostrophes to mark vhere letters are missing and to mark singular possession in nouns









Full stop, exclamation mark, question mark and capital letter to demarcate sentences

Apostrophe

Apostrophes have two different uses.

To show the place of missing letters:

He's jumping



To show ownership:

> Ravi's hat

Sentences can be made more interesting by using these CONJUNCTIONS

Subordination



We can play out when we've finished.

Co-ordination



like strawberries but I don't like oranges.

SPELLINGS to learn. Some are tricky words and some have suffixes

ly	ment	less	ness	ful
lonely	excitement	useless	shyness	cheerful
angrily	refreshment	pointless	quietness	spiteful
quickly	disappointment	endless	fatness	pain ful
sadly	movement	base less	closeness	watchful
strangely	development	fear <mark>less</mark>	kindness	help ful
boldly	environment	job <mark>less</mark>	forgiveness	mouthful
firstly	amazement	thankless	rudeness	fearful
brightly	replacement	self <mark>less</mark>	sadness	stressful
softly	punishment	hopeless	happiness	hopeful
quietly	entertain ment	homeless	boldness	delightful
sweetly	enjoyment	careless	greatness	joy <mark>ful</mark>
bravely	assessment	Tasteless	darkness	thankful

after	child	every	half	move	plant	whole
again	children	everybody	hold	Mr	poor	who
any	Christmas	eye	hour	Mrs	pretty	wild
bath	class	fast	improve	old	prove	would
beautiful	climb	father	kind	only	should	
because	clothes	find	last	parents	steak	
behind	could	floor	many	pass	sugar	
both	cold	gold	mind	past	sure	
break	door	grass	money	path	told	
busy	even	great	most	people	water	

Year 2 English Knowledge Organiser

A Poem to Learn

The Owl and the Pussy-Cat

By Edward Lear

The Owl and the Pussy-cat went to sea In a beautiful pea-green boat, They took some honey, and plenty of money,

Wrapped up in a five-pound note.
The Owl looked up to the stars above,

And sang to a small guitar,
"O lovely Pussy! O Pussy, my love,
What a beautiful Pussy you are,

You are,

You are!

What a beautiful Pussy you are!"

Pussy said to the Owl, "You elegant fowl!
How charmingly sweet you sing!
O let us be married! too long we have tarried:
But what shall we do for a ring?"
They sailed away, for a year and a day,
To the land where the Bong-Tree grows
And there in a wood a Piggy-wig stood
With a ring at the end of his nose,

His nose,

With a ring at the end of his nose.

"Dear Pig, are you willing to sell for one shilling

Your ring?" Said the Piggy, "I will."
So they took it away, and were married next day

By the Turkey who lives on the hill.
They dined on mince, and slices of quince,
Which they ate with a runcible spoon;
And hand in hand, on the edge of the sand,
They danced by the light of the moon,

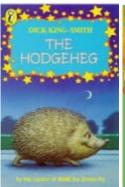
The moon, The moon,

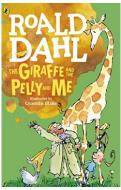
They danced by the light of the moon.

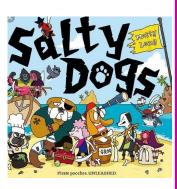


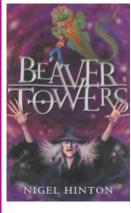
Reading and Poetry

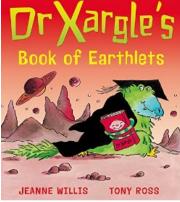
Some Books to Read



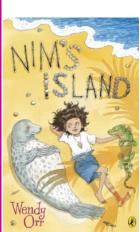


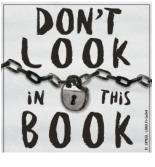


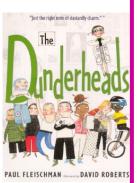




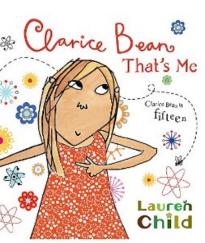
















Key Vocabulary

Habitat A place where a living organism makes its home.

Micro-habitat A small area which different in some ways from the surrounding habitat.

Food chain A sequence describing how different animals eat each other, showing the order in

Producer Something that has the ability to make its own food or energy.

Consumer Living things that have to hunt, gather and eat their food.

Dependency The reliance of one thing on another.

What should I already know?

- Animals can be grouped in a variety of ways based on their similarities such as what they eat or what they look like.
- A life cycle describes the different stages a living thing goes through as it grows and becomes an adult.
- Animals are carnivores, herbivores or omnivores.

Key Learning: Habitats

Habitats are more than just homes for animals. They provide all the things they need to survive and succeed.

Some examples are:



Animals are **adapted** to their habitats. This means that their bodies work in special ways to help them survive.

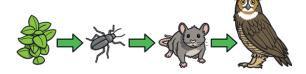
For example, camels which live in hot, dry sandy deserts have large humps on their backs to store fat and water. They have long eyelashes to keep the sand out of their eyes and large feet to stop them sinking into the sand.

In this unit, I will...

- identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other;
- identify and name a variety of plants and animals in their habitats, including microhabitats;
- describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.

Key Learning: Food chains

All living things need energy. They get this energy from food. A food chain shows how energy is passed between plants and animals. The arrows on a food chain show how the energy is passed on.



All food chains begin with a **producer**. This is something that has the ability to make its own food, usually a plant.

In turn, the plant is eaten by a living creature. In the food chain, it's called a **consumer**, like the beetle.

Animals that only eat other creatures are called carnivores and these animals are found at the top of the food chain. They are **predators** or hunters like foxes or owls. The mouse is the owls **prey**. This means it is hunted and eaten by another animal.

Humans are part of a food chain too. Luckily we are at the top of the food chain as there aren't many animals that want to eat us.



History – Our Patch, Reading Abbey

	Key Vocabulary
Abbey	An abbey is a church with buildings attached to it in which monks or nuns live or used to live.
Ruins	The parts of something that remain after it has been severely damaged or weakened.
Monk	A monk is a member of a male religious community that is usually separated from the outside world.
Praying	Speaking to a god
Manu- scripts	A manuscript is a piece of writing, usually a book
Spiritual	Relates to people's thoughts and beliefs, rather than their bodies or physical surroundings
Trade	Buying or selling goods

Key Learning

We will learn that the abbey is a religious building which was lived in by monks.

We will be able to located the abbey in Reading, England near our current town centre.

We'll learn about when the abbey was built and who was involved.

Why Reading Abbey is an important part of Reading history and what it can tell us about life between 1121 – 1539.

The historic significance of the abbey. For example, for what important historical events the abbey was used for.

Describe the daily activities and lifestyle of the monks who lived in the abbey.

We will learn about how the abbey changed the town of Reading.

How Reading abbey declined and became a ruin.





In this unit, I will...

Locate Reading Abbey on a map and discover what it was like for the monks who lived there. I will explore the manuscripts written by monks and how the work and other activities they did in the Abbey. I will find out how the abbey changed and became a ruin. I will be able to explain how the abbey is used today.

What should I already know?

We should already know that Reading is in England and that England is ruled by the monarchy. We should know how to make a simple, chronological timeline of events in our own lives and know how to sequence historical events.



King Henry I of England.





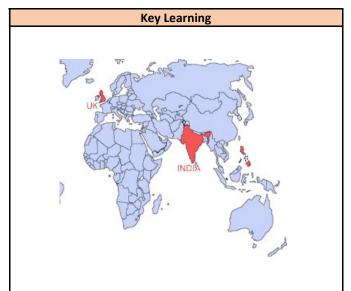
Key Vocabulary		
weather	Weather includes temperature, wind, humidity, rain and cloud cover.	
climate	Climate is the average weather conditions for a particular location over a long period of time, ranging from months to thousands of years.	
equator	An imaginary line around the middle of planet Earth.	
poles	Earth's North and South poles are the two opposite ends of its axis and its most northern and southern points.	
Physical features	These are the things we can see in a place, like mountains, oceans, and deserts.	
Human features	These are the things people create or do in a place, like houses, cities, or activities.	
adaptations	Special features or behaviours animals have which help them live in their specific habitats	

In this unit, I will...

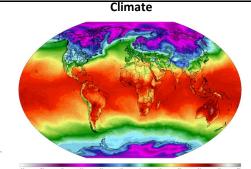
compare geographical features of Scotland and India. We will discuss how the position of the country in relation to the equator affects the climate and weather. We'll discuss with the class the physical features they might find in hot places like India such as deserts, beaches or tropical forests. For Scotland, a much colder environment, we'll be discussing features like snowy mountains and arctic tundra land-scapes.

What should I already know?

- To Identify seasonal and daily weather patterns in the United Kingdom
- Seasonal weather and daily weather patterns.
- Seasonal changes within our local area and how the weather changes throughout the year.
- Simple compass directions of North, South, East and West.
- That Scotland is a country that is part of the United Kingdom.
- What physical and Human features are.







Year 2 Terms 3 & 4



God



In Sikhism, the followers believe that God is everywhere in the universe and in every-

thing. They see God as one big power that is all around us. They have a special symbol, called Ik Onkar:

This symbol stands for this idea. The Sikh god could be understood with the idea of everything being connected.

Sikhs see everybody as an equal.

Leading a good life, doing good things and making the right choices are an important part of the Sikh faith. Sikhs believe that Guru Nanak, the founder of the Sikh religion, received messages from God to teach people how to follow

a simple faith.



Sikh symbols



The Five Ks:

a ceremonial sword, steel bracelet, uncut hair, wooden comb and cotton undergarment are Sikh physical symbols that show Sikh identity, commitment to Sikh principles and readiness to defend the oppressed.



Khanda

is a symbol of Sikhism.

It is made up of: the khanda, a double-edged sword, the chakkar which reminds Sikhs to remain within the rule of God; and two crossed kirpans, swords that represent spiritual authority and political power.

Sikh Place of Worship



Sikhs worship in a temple called a Gudwara.

The picture shows the most important Sikh temple—The Harmandar Sahib (The Golden

Temple) - in Amristar, Punjab, India. Most towns in England also have their own Gudwara.

Inside a Gudwara you will find:



This is the Sikh holy book. It is like a guide-book Sikhs follow to learn about their faith and how to live a good life. In the book, there are teachings from different Sikh gurus.



A chaur is a special brush or fan made of long, soft hairs attached to a handle. Sikhs wave it over the Guru Granth Sahib, their holy book, as a sign of respect.



RE—Sikhism

Sikh langar is a communal meal where free vegetarian food is served to all people from all backgrounds as a symbol of equality, unity and selfless service.

Sikh Festivals







Vaisakhi is a Sikh festival celebrated in April to mark the harvest season and the birth of the Khalsa, a Sikh warrior community. It is also a time for community gatherings and a religious procession called **Nagar Kirtan**.



During **Vaisakhi**, Sikhs got to the gurdwara in the morning for a service. Afterwards, they have a procession through the streets with lots of singing, chanting and colourful clothes. In the evening, Sikhs have a special meal with family and friends.

Like Hindus, Sikhs also celebrate Diwali but for a differ ent reason; they celebrate the story of Guru Hargobind's (the sixth guru) release from prison.

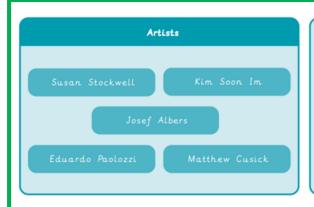




Key Vocabulary:

Abstract	Art where the subject doesn't necessarily look like it does in real life	
Composition	Putting different elements together in a pleasing way	
Curator	Someone who organises amd looks after collections in museums and galleries	
Felt	A material made by laying fibres in different direction: then squashing them together	
Fibre	Threads of wool	
Inspired	Feeling very interested and excited by something you have seen	
Negative print	Ink will show the background of the tile rather than the drawn lines	
Pattern	A design in which shapes, colours or lines are repeated	
Stained glass	Colourful, decorative glass that makes a design	
View finder	A tool used to help choose a composition	



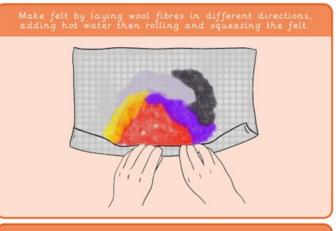


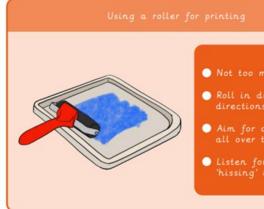
Abstract art doesn't necessarily look like it does in real-life. Artists use shapes, colours and different marks





overapping materials





- Not too much ink!
- Roll in different directions.
- Aim for a thin layer all over the roller.
- Listen for a sticky 'hissing' noise!



Key Vocabulary:

Vocabulary

Fabric plant or tree's edible seed with envelope

technique plant used for food

joining Making mechanical or chemical changes to food

finishing Equipment used to make changes to food (knives, juicers, etc.)

fastenings Taking measures to prevent the spread of bacteria that can cause illness

Exploring and evaluating joining techniques

Gluing Stapling Safety pin Pinning Sewing

Finishing techniques





Creating pattern pieces: chalk



Creating pattern pieces: pins



Creating pattern pieces: clear tape





Children will have the opportunity to explore different types of fruit fabrics and joining techniques to create wearable items. Children will also learn the importance of careful drawing, cutting and following of instructions. After all investigative work is done children will design, make and evaluate a sporran.



function as pockets on the

pocketless kilt.





Key Vocabulary

Habitat A place where a living organism makes its home.

Micro-habitat A small area which different in some ways from the surrounding habitat.

Adaptations the biological mechanism by which organisms adjust to new environments or to

changes in their current environment

What should I already know?

- Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.
- Identify and describe the basic structure of a variety of common flowering plants, including trees.

Key Learning

Habitats are more than just homes for plants. They provide all the things they need to survive and succeed.

Plants that grow in desert











shaped leaves





Aquatic Plants







plants

Underwater Submerged

Plants also adapt to their habitats. They live in a habitat to which they are suited, which means that they have suitable features that help them to grow well. For example: Plants that are found in deserts have fleshy stems. These fleshy stems help them store water later used during water scarcity. Their roots move deep inside the soil to absorb water. Their leaves get modified into spines so that water is not lost through them.

In this unit, I will...

- Learn that all objects are either living, dead or have never been alive.
- Learn that plants live in a habitat to which they are suited, which means that they have suitable features that help them to grow well. The habitat provides the basic needs plants shelter, food and water.
- Know that within a habitat there are different micro-habitats e.g. in a woodland – in the leaf litter, on the bark of trees, on the leaves. These micro-habitats have different conditions e.g. light or dark, damp or dry. These conditions affect which plants live there.

Key Learning

Characteristics of living things:



- ovement
- espiration
- ensitivity
- rowth
- eproduction
- xcretion
- utrition

All objects are either living, dead or have never been alive. Plants (including seeds) are living things. Dead things include some plants and parts of plants that are no longer attached e.g. leaves and twigs.