



# **International Primary Curriculum**



Years 1-6 Topic Coverage  
2017-2018

# IPC 2017 Topics

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## **Year 1.**

### **Time Detectives. (Focus: Guy Fawkes and Great Fire of London)**

#### **The Big Idea**

Would you like to be a detective? A time detective who goes in search of evidence from the past? Evidence that tells you where people lived, what people did and what happened to them? Detectives need clues – our clues are going to be old objects and treasures from the past.

#### **In History, we'll be finding out:**

How we find out about the past  
About clues that are left behind from the past  
How to sequence clues from our families' past  
How to create a 'Time Detectives' museum  
How to create a time capsule

#### **In Science, we'll be finding out:**

About the properties of different materials  
How to sort materials into groups  
How different materials age over time

#### **In Art, we'll be finding out:**

How to look closely at objects  
About the paintings of Joan Miró  
How to compare a photograph and a painting

#### **In International, we'll be finding out:**

About an important historical find  
Why we learn about the past

### **The Stories People Tell. (Fairy Tales)**

#### **The Big Idea**

Many of the stories that we enjoy today are influenced by the stories that have been passed down through the ages. By studying older stories, such as myths and legends, we can become storytellers too, writing and performing our own stories to entertain people today.

#### **In History, we'll be finding out:**

About myths and legends from different times in the past  
How to create our own legend about someone we know  
About the gods that people used to worship in the past

#### **In Art, we'll be finding out:**

How people in the past have represented stories and characters  
How we can use art to tell a creation story  
How to create our own Greek masks  
How to design and make our own dream catcher

#### **In Physical Education, we'll be finding out:**

About fables and the lessons that they teach us  
How we can use dance and movement to tell a story

### **In Music, we'll be finding out:**

About songs and music that tell a story  
How we can make our own music to tell a story

### **In Geography, we'll be finding out:**

About stories from different countries and cultures  
How we can remember an important journey  
How we can make a map of our own imaginary land

### **In Society, we'll be finding out:**

About fairy tales and the lessons that they teach us  
How we can make a modern version of a fairy tale  
About who we think of as 'heroes' today

### **In International, we'll be finding out:**

About legendary and mythological characters from our different home countries

## **What's it Made of?**

### **The Big Idea**

Everything we touch is made up of a material: wood, plastic, fabric, glass, gold, steel, etc. We use different materials to make different objects. Why? We are going to find out!

### **In Science, we'll be finding out:**

What objects are made of  
How we use different materials  
How to test materials  
How materials are the same or different  
How we can group materials  
How to choose materials for specific uses  
Where materials come from

### **In Technology, we'll be finding out:**

How to plan and design a classroom makeover  
In International, we'll be finding out:  
About the materials used to build our homes  
Why plastic waste is a global problem and what we can do about it

## **Flowers and Insects**

### **The Big Idea**

Have you seen any flowers today? Where did you see them? Have you seen any insects? Where did you see them? Flowers and insects need each other. Without insects there would be no flowers. And without flowers insects would go hungry.

### **In Science, we'll be finding out:**

Where flowers and insects prefer to live and grow  
How and where seeds grow

How to set up tests to discover how plants use water  
How to grow lots of different things  
How beans grow  
About the life cycles of insects  
About ants and bees

**In Geography, we'll be finding out:**

About honey and silk production  
About the migration of the Monarch butterfly

**In Art, we'll be finding out:**

About paintings of flowers and insects  
How to make paintings and models of flowers and insects  
How to use symmetry to make paintings of insects  
How to create a garden in the classroom

**In Music, we'll be finding out:**

About the music of the famous composer, Rimsky-Korsakov  
How to create our own music

**In Society, we'll be finding out:**

About keeping stick insects as pets  
About people who help us

**In International, we'll be finding out:**

About flowers and insects from the host and home countries  
About how climate and weather patterns affect life around the world  
About flowers as emblems for different countries

## **Hooray! Let's go on Holiday**

### **The Big Idea**

Holidays are special days when we take a rest from school and work. Our holidays in the past were very different from holidays today. Now that we can travel to all parts of the world and even space, who knows where we will go for our holidays in the future?

**In Geography, we'll be finding out:**

About the places people go to on holiday  
How they get to their holiday destination  
Some of the things people do on holiday  
What people wear on holiday  
How tourism can spoil holiday places

**In History, we'll be finding out:**

About the holidays that we have had in our own past  
About the holidays that our families and other people have had in the past  
What is the same and what is different between holidays in the past and today  
About some of the wonders of the world

**In Art, we'll be finding out:**

How to create a sand art sculpture  
About some of the pictures that are used to record holidays  
How we can record our holidays  
About the designs of some holiday souvenirs

**In ICT & Computing, we'll be finding out:**

How to use mapping software

**In Society, we'll be finding out:**

How to stay safe on holiday  
What a pilgrimage is

**In International, we'll be finding out:**

What is the same and what is different between the lives and home countries of the different children in our class  
How to greet people in different languages  
About future holidays in space

## **Year 2**

### **Brainwave**

#### **The Big Idea**

Our brain is special because it does lots of amazing things. Once we understand how our brain works and what we can do to make it work even better, then we can improve the way that we learn.

In this unit, we'll be finding out:

How the brain works

About the personal goals that help us to become better learners

How to find out facts to prepare for a special challenge

How to learn and practise skills for a special challenge

How to record how well we are learning

How to use what we have learned to create our own special challenge

How to wake up our brain

How to look after our brain

How to design a classroom for learning

### **Freeze It!**

#### **The Big Idea**

We are going to investigate the science of freezing to make our own ice lollies and ice desserts. By doing this, we will learn all about solids and liquids and how a liquid can be cooled to make a solid and how a solid can be heated to make a liquid!

#### **In Science, we'll be finding out:**

All about ice and water

At what temperature water freezes

How long ice takes to melt

What happens when we freeze other liquids

How we can turn ice into a healthy food

Which materials will keep ice cool

#### **In Technology, we'll be finding out:**

How to design and make an ice-cooler

#### **In International, we'll be finding out:**

About the differences between hot and cold countries

### **Seeing the Light**

#### **The Big Idea**

If there was no light, there would be no life on our planet. Light helps plants to grow, it warms the planet, and it allows us to see all the wonders around us.

#### **In Art, we'll be finding out:**

How to show light and dark in our drawings and paintings

How artists have shown light and dark in their own paintings



### **In Geography, we'll be finding out:**

About what causes day and night

About countries that have very long summer days and very long winter nights

About different sources of light in our school and local area

### **In Music, we'll be finding out:**

About songs and music that have light and dark as their theme

How to make our own songs and music with light and dark as a theme

### **In Science, we'll be finding out:**

What seeds and plants need to grow

About different light sources

How some materials can reflect light

How shadows are made

### **In International, we'll be finding out:**

How light is important in many festivals and celebrations

## **People of the Past**

### **The Big Idea**

History is one big story, filled with important people who did many great things - scientists, rulers, artists, writers, explorers. By learning about these people and what they did, we can find out more about the qualities that make someone great.

### **In History, we'll be finding out:**

About the different decisions that rulers had to make in the past

How to use a living graph to explore how a person from history might have been feeling

About the life of a famous explorer using maps and role play

How to compare the lives of two different explorer

About the achievements of important scientists and inventors

About what life was like at different times in the past

### **In Music, we'll be finding out:**

About the life and music of a famous composer

How to use music to tell the story of our famous composer

### **In Art, we'll be finding out:**

What we can learn about a person from their portrait

How to create a portrait of a friend

About the work of famous artists

How to paint a scene in the style of a famous artist

### **In International, we'll be finding out:**

About the idea of 'fairness' and what it means

Why some people in the past wanted to make change

# **We Are What We Eat**

## **The Big Idea**

Food plays a vital role in history and culture throughout the world because food is essential to life. By learning about the different types and amounts of food our bodies need, we can plan healthier diets and enjoy longer lives.

## **In Science, we'll be finding out:**

Why we need to eat food and what the best foods are  
How some of our food grows  
How to carry out science investigations  
About our sense of taste

## **In Geography, we'll be finding out:**

Where our food comes from  
What food is eaten in our home and host country  
Why different foods grow and are eaten in different countries

## **In History, we'll be finding out:**

About the food that our parents and grandparents ate when they were young  
How and why the choice of food in our shops has changed  
What our ancient ancestors ate

## **In Art, we'll be finding out:**

About artists that use food for their ideas  
How to draw and paint fruit and vegetables  
How artists are involved in things we see around us, including advertising

## **In Technology, we'll be finding out:**

How to plan, make and evaluate a healthy pizza  
How to make a box for a pizza

## **In Society, we'll be finding out:**

How food plays a role in celebrations and festivals  
About our favourite family recipes

## **In International, we'll be finding out:**

About famine and drought around the world  
Where drinking water comes from

## All Dressed Up

### The Big Idea

Have you ever seen an elephant in a dress? Or a giraffe in a pair of jeans? Of course not, because unlike animals, only humans wear clothes. Clothes are an important part of our lives. They can keep us warm (or cool). We can wear different colours and designs and change them for different occasions, we can follow the latest fashions – and even make them ourselves! So what do the clothes you wear say about you?

### In Geography, we'll be finding out:

- What people wear in different countries
- What the climate is like in different parts of the world
- How the weather affects what people wear

### In Science, we'll be finding out:

- How we can sort materials
- How to carry out a scientific investigation
- Which materials will keep us warm or dry

### In Art, we'll be finding out:

- How to create our own tartan design
- About symmetry in design
- How to make repeat patterns

### In Technology, we'll be finding out:

- How wool is made
- How to make a weaving on a cardboard 'loom'
- What felt is and how it is made
- About different methods of fastening clothes

### In History, we'll be finding out:

- About clothes people wore in the past
- About comparing clothes 'then' to 'now'

### In Society, we'll be finding out:

- About protective and reflective clothing

### In International, we'll be finding out:

- About the clothes people wear for special occasions
- How to design a school uniform

## **Our Home, Our World**

### **The Big Idea**

Our world is where we live – our home, our family, our school. It is the places that we go, the people that we meet, the things that we can see, smell, hear, taste and touch. Our world is important, because we share it with lots of other living things. We need to treat our world with respect – to ensure that it is well looked after – so that every person, animal and plant can live healthily and enjoy it.

### **In Art, we'll be finding out:**

How to create artwork using natural materials  
How to make a tree collage  
How to make a silhouette of our local skyline  
How to design and create our own sensory garden

### **In Science, we'll be finding out:**

About the animals, plants and birds in our local environment  
About the best soil conditions to grow seeds  
How we can recycle and reuse materials to help our environment  
How we can set up our own composting club

### **In Geography, we'll be finding out:**

About different wildlife habitats in our local environment  
About the animals and insects that share our local environment  
How our local environment compares with other locations around the world

### **In Technology, we'll be finding out:**

How to make model gardens  
How to design and make our own bird feeders

### **In Music, we'll be finding out:**

How to create our own sound journey around our school  
About music and songs, written about the weather

### **In International, we'll be finding out:**

How to make a fact file about our home country to share with others

## Year 3

### Scavengers and Settlers

#### The Big Idea

Humans are special. Unlike other animals, we can adapt and learn new skills in order to survive, which is exactly what our ancestors did in the Stone, Bronze and Iron Ages.

#### In History, we'll be finding out:

How fossils are made and what we can learn from them  
What our earliest ancestors might have looked like  
How our ancestors were able to survive  
How to use archaeological evidence to find out about a prehistoric hunter  
Where our ancestors settled and how they lived  
How we can learn about the past by investigating a Stone Age village  
What life was like during the Bronze Age and Iron Ages

#### In Art, we'll be finding out:

How to create our own prehistoric cave paintings  
How to make and decorate pottery, based on one of the periods we have explored

#### In Technology we'll be finding out:

About the types of foods that the first farmers would have grown  
How we can update the dishes that the early settlers may have eaten

#### In International, we'll be finding out:

How we can work together to learn new skills and achieve our goals

### They Were Bright Sparks! (inc. Bright Sparks and Inventions which Changed the World)

#### The Big Idea

Inventions have transformed the way that we live our daily lives – from the simple paperclip to the latest mobile device. By learning about the important inventions that have changed our world, we can discover how we could become great inventors too!  
Electricity is an energy that flows along wires in our homes, schools, offices, towns and cities to power lights, televisions, computers, cars and trains, and hundreds of other things that we use every day. Let's find out what we can do with electricity.

#### In History, we'll be finding out:

About significant inventions of the last 100 years  
About inventions in the way we communicate  
About the Islamic 'Golden Age of Invention'  
About the history of flight and associated inventions  
About the history of the electric light bulb

### **In Technology, we'll be finding out:**

- How to make a pinhole camera
- How levers, gears and cams work
- How to make a moving toy
- How to invent and build something to solve a problem
- How to make a house with lighting and a door buzzer

### **In Science, we'll be finding out:**

- About the air around us and the science of flight
- How to make a paper glider
- About man-made materials and their properties
- How to carry out a scientific test
- How to make an electrical circuit
- Which materials allow electricity to pass through them
- What happens when we change a circuit
- How to build bigger circuits
- About magnetism and electricity
- About using electricity as heat
- How to keep safe around electricity

### **In Art, we'll be finding out:**

- How technology has been depicted in art
- About techniques in traditional and modern art
- How to create digital art
- How to make a print

### **In Society, we'll be finding out:**

- How technology and inventions affect people's lives
- How inventions have made life easier or harder
- About inventions in the home and host countries
- Why some countries have fewer or more technologies than others

### **In International, we'll be finding out:**

- How the invention of the internet has changed the way we communicate
- How the world's scientists are sharing knowledge about inventions and the latest technology
- How we produce electricity in our country
- Why saving electricity is good for the planet

## **Active Planet**

### **The Big Idea**

The tectonic plates that form the Earth's crust are always moving. Even the smallest movement can cause huge earthquakes, volcanoes and tsunamis that devastate communities across wide areas. If we can understand what is happening underground we can learn to predict and protect ourselves in the future.

### **In Geography, we'll be finding out:**

- About how the Earth is formed
- What a volcano island is and where they are in the world
- What causes an earthquake?
- How earthquakes can be measured

### **In Technology, we'll be finding out:**

What makes buildings strong  
About protective clothing and equipment  
About how to put together a survival kit

### **In Science, we'll be finding out:**

About solids, liquids and gases in volcanoes  
What happens when a volcano erupts  
What happens when rock melts  
How volcanoes can give off poisonous gas

### **In Music, we'll be finding out:**

How to use instruments to make sound pictures  
How to compose our own piece of music

### **In History, we'll be finding out:**

About the devastation of Pompeii

### **In Art, we'll be finding out:**

About hot and cold colours  
About using different materials and techniques to represent a volcano

### **In Physical Education, we'll be finding out:**

How to use lots of different sequences of movement to show the story of volcanoes

### **In Society, we'll be finding out:**

About legends associated with volcanoes  
Why people continue to live in volcanic areas despite the dangers

### **In International, we'll be finding out:**

About international organisations that work after natural disasters  
About the knock-on effects of earthquakes and volcanic activity

## **Chocolate Milkshake! (inc. Shake it and Chocolate)**

### **The Big Idea**

Wouldn't it be amazing if chocolate grew on trees? Well, it does! Wouldn't it be amazing if I said we were going to make some chocolate? Well, we are! And we're going to discover even more amazing things about chocolate...

We are also going to find out all about solids, liquids and gases by making butter and cheese, and milkshakes.

### **In Geography, we'll be finding out:**

Where cacao trees are found  
About the factors affecting the growth of cacao trees  
About other cash crops

### **In History, we'll be finding out:**

Who first discovered chocolate  
Who took the first chocolate to Europe  
About the importance of cocoa beans for trade

**In Science, we'll be finding out:**

About the ingredients in chocolate  
If chocolate causes tooth decay  
Why chocolate wrappers are made from special materials  
What the melting point of chocolate is  
About solids, liquids and gases  
How we can change milk into a solid  
What happens when butter is heated  
About the behaviour of gases in liquids  
Which solids will dissolve in a liquid  
About the science of making milkshakes

**In Technology, we'll be finding out:**

How to make our own chocolate  
What we can add to chocolate  
How to design and make a hand whisk

**In Art, we'll be finding out:**

How to design a wrapper for our chocolate bar

**In International, we'll be finding out:**

What fair trade chocolate is  
What other fair trade products there are  
How important chocolate is  
Why milk is scarce in some countries and what we can do to help



## **Year 4**

### **Temples, Tombs and Treasures**

#### **The Big Idea**

The people who helped create the first great civilisations were not unlike you and me. Today we can learn a lot about these people and their way of life through the things they left behind – from everyday objects to magnificent and rare treasures.

#### **In History, we'll be finding out:**

- Why rivers were important to ancient civilisations
- What daily life was like in Ancient Egypt
- How to write using Egyptian hieroglyphics
- About the different rulers of Egypt
- About Ancient Egyptian religion and burials
- How the Ancient Egyptians might have built the pyramids
- About the treasures discovered in Tutankhamun's tomb
- How to use different sources to find out about Ancient Sumer
- How to compare life in Ancient Sumer with life in Ancient Egypt

#### **In Music, we'll be finding out:**

- About the instruments used in Ancient Egypt and Ancient Sumer
- How to create our own music to retell a story from an ancient civilisation

#### **In Art, we'll be finding out:**

- How to plan and create our own tomb wall painting
- How to make an Ancient Egyptian headdress

#### **In International, we'll be finding out:**

- How to plan an Ancient Egyptian celebration to share with friends and family

### **Paintings, Pictures and Photographs**

#### **The Big Idea**

We see visual images all around us every day and they are produced for a variety of purposes. Some help us by providing important information, some entertain us, some are a record of an event or person, and some are used to advertise and sell us things. We need to be able to interpret and use all different forms of visual representation in our daily lives.

#### **In Art, we'll be finding out:**

- How artists used different materials and techniques for their work
- About the reasons why different art work is produced
- How photographers select, use and display their work
- How to appreciate and interpret the work of others

### **In Geography, we'll be finding out:**

How symbols are used on maps and plans  
How maps, plans and globes can be used  
How the world can be recorded in aerial photos and satellite images

### **In History, we'll be finding out:**

About some of the materials and techniques used by people in the past  
About how portraits and photos help us find out about the past

### **In ICT & Computing, we'll be finding out:**

How computers can be used to generate art  
How computers can be used to combine words and pictures  
How art work can be researched and viewed on the Internet

### **In Music, we'll be finding out:**

How symbols are used to represent sounds  
How visual images can inspire musical compositions

### **In Science, we'll be finding out:**

How light, dark and shadows can be created  
How certain materials can be described as transparent, opaque or translucent  
How white light is made up of different colours  
How colours can be separated  
How filters can be used to change the colours that we see  
How moving images are made

### **In Society, we'll be finding out:**

How visual images can be used to influence our thinking  
How graffiti and street art can affect our environment

### **In International, we'll be finding out:**

About natural landscapes across the world and the environmental issues which threaten these

## **Land, Sea and Sky. (inc. Saving the World and The Nature of Life)**

### **The Big Idea**

Plants and animals can adapt to living almost anywhere on our Earth. Wherever we look on the land, in the sea and in the sky, we find living things that have evolved in unique ways just to live there. Rainforests once covered 14% of our world's surface. Now they cover less than 5%. Every second, an area of the rainforest the size of a football field is being destroyed. Some scientists believe that, if we lose our rainforests, we might put our whole planet at risk. What will we do to help save the rainforest?

From frogspawn to frogs, from caterpillars to butterflies and from seeds to plants, all living things grow and change, feed and reproduce. But how does life begin for living things and what effect does the environment have?

About rainforest body art and painting our faces in a similar style  
How we can use art to create a rainforest scene

### **In Geography, we'll be finding out:**

About where rainforests are in the world  
Which rainforest products we use in our everyday lives  
About the lives of rainforest people and how they compare with our own  
How and why the rainforest is being destroyed  
Discovering the ways that people are trying to save the rainforest

### **In ICT & Computing, we'll be finding out:**

How to program and share our own rainforest-themed computer game

### **In Music, we'll be finding out:**

How to represent a rainforest scene using music

### **In Physical Education, we'll be finding out:**

How to represent a rainforest scene using dance and mime

### **In Science, we'll be finding out:**

How water plants are different from other plants  
How fish have adapted to living in water  
How birds are adapted to flying  
How to create a classification key to group animals  
About food chains in different world habitats  
About the life cycles of plants and animals  
About different rainforest animals and plants  
Where different animals and plants live in the rainforest  
About rocks and soils found on the forest floor  
About colour in the rainforest and how it is used by animals and plants  
Why plants have leaves and why they can be different  
About the best conditions to grow a plant  
About rainforest fruits and seeds  
How to grow our own rainforest plant from a seed  
About animal, plant and human life cycles  
About local food chains and webs  
How living things grow and change  
How living things are grouped  
About animal and plant adaptations  
About the differences between living and non-living things

### **In Technology, we'll be finding out:**

How to set up an aquarium  
How to make a bird nesting box  
How to plan and make our own tropical fruit drink

### **In International, we'll be finding out:**

How environmental changes are a threat to the world's coral reefs  
About Earth Day and how we can help our planet  
Which animals and plants need protection  
Why we need to look after all living species  
How different countries and organisations are helping to save our rainforests

## How Humans Work

### The Big Idea

Your body is like an engine that never stops working. By knowing how your body works you can learn to look after it better and stay healthy.

### In Science, we'll be finding out:

That we need light in order to see  
How human teeth compare to animal teeth  
How our body uses food and water  
How our heart works to keep us alive  
All about skeletons and muscles  
About the human life cycle  
Why exercise is good for us  
How tobacco and alcohol harm the body

### In Technology, we'll be finding out:

How to plan and prepare a healthy meal

### In International, we'll be finding out:

About people's health problems  
If we can improve the health of the world's children

## What's on the Menu?

### The Big Idea

Think about all the different meals that you have eaten over the last five days. This might include home meals, school meals and any restaurant meals you have eaten. Have you ever stopped to consider where your food comes from? Who made it? How were the ingredients grown? How many different people were responsible for the food that ends up on your plate? Food is essential. It gives us energy to do the things that we want to do – but how much do we really know about how food is produced and prepared?

### In Geography, we'll be finding out:

About restaurants in the local area  
Where our food comes from  
Which foods are produced locally  
How food travels to the shop or supermarket  
About different types of farming  
What happens on a local farm

### In Science, we'll be finding out:

How fruits and vegetables grow  
How we can grow our own food in the classroom  
Why a balanced diet is important  
How to store our food properly  
What is inside a breakfast egg and how we can cook it

### In History, we'll be finding out:

About popular foods from different periods of history  
What sailors and explorers used to eat when travelling

**In Technology, we'll be finding out:**

How to make bread and butter  
How we can present food to make it more interesting  
How to create a healthy fruit sundae  
How to make freezer jam  
How we can make models of farm machines

**In Society, we'll be finding out:**

About different diets and food requirements  
About different countries and the role of food in their celebrations and traditions

**In International, we'll be finding out:**

About local food and customs in the host country  
How special events are celebrated in our home and host countries

## Year 5

### The Great, The Bold and The Brave

#### The Big Idea

The history of western civilisation begins with the Greeks and the Romans. Their expanding empires helped to spread ideas about architecture, food, entertainment, literature, science, medicine and politics across the globe. As their empires ended, other cultures rose to prominence, absorbing and passing on their own ideas and cultures – creating the world we know today.

#### In History, we'll be finding out:

- About the Greek city-states of Athens and Sparta
- How people voted in Athens and Sparta
- How the Persian War brought the Greek city-states together
- What the Parthenon can tell us about Athenian life
- How to perform our own Greek play
- About the life Alexander the Great and what he achieved
- Why Rome had a republic and then an emperor
- What daily life was like in Ancient Rome
- What happened when the Romans invaded another country
- Why the Roman Empire declined
- What happened when the Anglo-Saxons invaded and settled in Britain
- About the Viking invasion of Britain
- About the life and legacy of Alfred the Great
- How to use archaeological evidence to find out about the past
- About the history of Britain, from the Roman occupation to the Norman Conquest

#### In Music, we'll be finding out:

- How to write and perform our own Greek chorus

#### In Art, we'll be finding out:

- About Ancient Greek and Roman art
- How to create our own piece of art in a Greek or Roman style

#### In International, we'll be finding out:

- About the effects of invasion on countries around the world

### What a Wonderful World. (inc. Weather and Climate, Extreme Survivors)

#### The Big Idea

Natural forces have been shaping our planet for many billions of years and these dramatic changes are still going on, right now, all around us. Differences in weather and climate affect our lives and our lifestyles. We cannot control our weather and climate, but they can control us - influencing where we live, what we can do, what we wear, even what we eat!

If you lived in a harsh environment, for example, in the driest desert or on Earth, your body and behaviour would need to adapt in order to survive. So a cactus in the desert adapts by growing a thick stem to store water. But how would you survive if you were a small fish in the deepest, darkest ocean?

Throughout this unit we will be learning more about the physical processes that shape our planet – and the vital role that we play in safeguarding our planet and its resources for future generations.

In this unit we will also be finding out about the differences between weather and climate, and the important role they play in the lives of everyone on the planet.

### **In Geography, we'll be finding out:**

- About different regions and environments around the world
- How to use different types of map to find out information
- About the forces and processes that shape our planet
- About extreme weather events and how they affect people and localities
- About the possible causes of climate change and its effects on our planet
- How man-made changes can alter/change our local environment
- About the weather and climate in different parts of the world
- How human activities in different regions are affected by weather and climate
- How to produce our own weather forecasts
- How clouds are formed
- About the water cycle
- About some extreme weather records

### **In ICT & Computing, we'll be finding out:**

- How to program an online quiz to test our knowledge of biomes
- What copyright is and how it affects the ways we research and use information on the internet
- How to use inputs and outputs to program an interactive online quiz about 'Weather and Climate'
- Why it's important to be respectful when leaving comments and feedback online

### **In Science, we'll be finding out:**

- How to classify different types of rock and soil
- About the effects of weathering on different types of rock
- About the movements of the Earth, Sun and Moon and how they affect us
- About different types of cloud and how they are formed
- How we can set up a weather station and record data
- How to conduct experiments to simulate weather types
- How to make predictions, observations, and draw conclusions
- About ways we can measure and record weather
- How living things survive in the hot, dry desert
- How animals adapt to living in freezing cold temperatures
- About the fish that live in the deepest parts of the ocean
- How cave-dwelling creatures adapt to life inside the cave
- How animals live in the highest places on Earth
- Which invertebrates live in micro-habitats
- About a variety of food chains and webs
- About the effects of global warming

### **In Technology, we'll be finding out:**

- How to design and build our own weather station instruments
- About the different types of modern technology used to measure the weather
- How to make a bathyscope

### **In International, we'll be finding out:**

About local and global environmental issues

How different international aid groups and charities are helping those affected by environmental issues

About climate and environmental problems in our home and host countries

What simple things we can do to help improve our environment

Which world habitats and species deserve protection

About Earth Day and how we can help our planet

## **Making New Materials**

### **The Big Idea**

We are surrounded by amazing materials that can be shaped, combined, condensed, frozen, melted and burned. In this unit, we are going to experiment with different kinds of materials, and become cooks, chemists and creators of new materials.

### **In Science, we'll be finding out:**

About the chemistry of cooking

What happens when we dissolve or melt things

About gases and what they are

About different materials used in the kitchen

About conductors and insulators

About magnetic materials and their uses

How to separate mixtures by sieving, filtering and evaporating

### **In Technology, we'll be finding out:**

How to make our own clay

How glass is made

How to create a brand new material

### **In History, we'll be finding out:**

About the importance of bronze, iron and clay

About wax, papyrus and paper

### **In Art, we'll be finding out:**

How artists use different materials in their work

How to choose materials to express an idea

### **In International, we'll be finding out:**

How different countries work together to invent new materials

## **From Bronze to Bioplastic**

### **The Big Idea**

Materials are all around us. Everything we touch is made up of one or more materials: wood, plastic, paper, glass, rock, fabric. There are hundreds of different types of materials, and what's more scientists are creating new materials every day.



**In Science, we'll be finding out:**

Which is the hardest material  
How we can group rocks  
What is special about metals  
Which metals are magnetic  
About different types of soil  
About old and new fabrics  
Which materials keep us warm or cool  
About newly invented materials

**In Technology, we'll be finding out:**

How to make a treasure-detecting sand scoop

**In International, we'll be finding out:**

Where the world's most valuable materials are  
Why plastic waste is a global problem and what we can do about it

## **Being Human**

### **The Big Idea**

Your body is designed to help you to breathe, move, eat, respond, reproduce and live. But how do the different parts of your body function and how are humans different from other animals? Let's find out.

**In Science, we'll be finding out:**

How humans are different from other animals  
About the brain and the nervous system  
About the bones and muscles in the body  
How the human heart works  
How we breathe and what the lungs do  
What we inherit from our parents  
How our environment affects us  
How the body uses food and water  
About the latest medical research

**In Technology, we'll be finding out:**

How to plan and prepare a healthy meal

**In International, we'll be finding out:**

About a major global health problem  
If we can improve the health of the world's children

## **Year 6**

### **Mission to Mars**

#### **The Big Idea**

One day, humans may need to leave Earth and settle on another planet. Mars is our most likely destination – a world that we believe once harboured life and, with our intervention, may do so again in the future.

#### **In Science, we'll be finding out:**

About the planets in our solar system  
About mass and weight, and the effects of gravity  
How to grow seeds and plants, and choose those that will be suitable for Mars  
How to identify a living organism  
About different energy sources  
About different forces and their effects  
How to choose the best energy source/s for our Mars shelter

#### **In Geography, we'll be finding out:**

About the geographical features of Mars  
How we can prove that there was once water on Mars

#### **In Technology, we'll be finding out:**

About the technology that has been used to explore Mars  
How to design and make a robot to explore Mars  
How to design and make a suitable shelter for living on Mars

#### **In History, we'll be finding out:**

About what people in the past used to think about Mars  
About the evidence to prove and disprove intelligent life on Mars

#### **In Physical Education, we'll be finding out:**

How to ensure we are fit and healthy for our space mission  
How to plan and test our own exercises suitable for space travel

#### **In Society, we'll be finding out:**

How to work as a team  
How to assemble a successful team for our mission to Mars

#### **In International, we'll be finding out:**

How to write our own international rules and regulations for Mars  
About the reasons why we might one day need to live on another planet

## **Go with the Flow**

### **The Big Idea**

Rivers play a vital role in shaping the geography of our planet, providing nutrients, habitats and transport for people, plants and animals, and also supplying us with energy to power machinery and generate electricity. Rivers really are our most precious resource.

### **In Geography, we'll be finding out:**

How the shape of a river is always changing  
How it changes the land through which it flows  
What happens when it floods  
What uses people make of rivers

### **In Science, we'll be finding out:**

Where water comes from  
How to grow a stalactite  
How to clean water  
How water can be used to make power  
How rivers provide habitats for wildlife

### **In Technology, we'll be finding out:**

About different types of bridges and how they are built  
How to build our own bridge to span a gap and support a weight

### **In History, we'll be finding out:**

About the importance of the River Nile in every aspect of life in Ancient Egypt

### **In Society, we'll be finding out:**

About the advantages and disadvantages of damming a river

### **In International, we'll be finding out:**

About the effect of river management on different countries and communities

## **Time Tunnel (Focus: World War 2)**

### **The Big Idea**

Chronology involves putting things in the right order. This is very important when studying history because it helps us to see 'the big picture' – to understand the reasons why things have happened and how the present is influenced by the past.

### **In History, we'll be finding out:**

How historical time can be recorded and measured  
How we can sort, sequence and order the past  
How we can interpret events to explore the attitudes of people in the past  
What happened at different times in different cultures

### **In Geography, we'll be finding out:**

About the history of a location in the host country  
How the movements of people affect the physical and human features of a location  
How we can use maps to find out about the history of a location

**In Art, we'll be finding out:**

How artists from different periods have used art to record history  
How we can use art to record a historical event

**In International, we'll be finding out:**

What we can learn from the past

## **Look Hear**

### **The Big Idea**

Whether we are driving around in our cars, working, or relaxing at home, we are turning on lights, music, TV, radio, computers and mobile phones. We are plugged in to sound and light 24 hours a day. But what is the science behind sound and light? Let's find out!

**In Science, we'll be finding out:**

How we hear sounds and see light  
How the human ear and eye works  
How sound and light waves travel  
How a string telephone works  
How we can change the pitch of sounds  
About echoes and acoustics

**In Technology, we'll be finding out:**

How to make an elastic-band guitar

**In Music, we'll be finding out:**

How to play our homemade instruments  
In International, we'll be finding out:  
About noise and light pollution

## Full Power

### The Big Idea

Electricity is one of the most important discoveries ever made and we have learned how to use it to power almost every aspect of our lives. But who discovered electricity and how does it work?

### In Science, we'll be finding out:

- How to make an electrical circuit
- How we can change a circuit
- How to draw a circuit diagram
- How to build circuits from diagrams
- About different kinds of circuits
- How to make an electric wire-loop game
- About electricity and heat
- About the dangers of electricity

### In Technology, we'll be finding out:

- How to design a car's headlights, horn and fan

### In History, we'll be finding out:

- Who discovered electricity

### In International, we'll be finding out:

- About issues concerning electricity in the future
- What might happen in a power cut scenario

## Fairgrounds

### The Big Idea

We all know that fairground rides are designed to thrill our senses, through fear, excitement and the unexpected. How are these rides powered in a way which enables them to speed up and slow down at just the right moments, whilst staying on a track that twists upside down? These mysteries will be revealed as we learn more about the science behind energy, forces, sound and light.

### In Science, we'll be finding out:

- What keeps our feet on the ground
- About other forces that act upon us
- How to identify and measure forces
- How forces act on everyday life
- How to use electricity as a source of power
- About magnetism: how and why magnets work
- How light travels and how we see
- How sound travels and how we hear

### In Technology, we'll be finding out:

- How to solve problems to understand how everyday objects work
- How people use technology
- How to design and make models and games

**In ICT & Computing, we'll be finding out:**

How to use collaborative software for researching and sharing our learning

How to use control technology to design, write and debug programs for a fairground ride simulation

How to use sequence, selection and repetition in programs to create different design features for our fairground ride simulations

How to use search engines effectively, and how to use technology respectfully and responsibly

**In International, we'll be finding out:**

About fairgrounds and theme parks in our host and home countries

How international agencies are helping to increase energy efficiency and tackle the problems of noise and light pollution

About international aid agencies and their work