



IPC Curriculum Overview

Milepost 3 –Year 5

Autumn



The Holiday Show

The Big Idea: We will be finding out about our responsibilities as tourists, and the impact that our choice of holiday and travel destination can have on the human and physical environment.



Within this unit the children will be learning through a range of subjects: Geography, History, Technology, Music, ICT and Computing and International. In Geography, the children will be learning about a tourist attraction in our local area, about the role of our local Tourist Information Centre, how maps can give us tourist information, about tourism and its impact on regions, countries and cultures and how we can create an eco-friendly, sustainable holiday resort. Through their History learning the children will be finding out how to create a history tour of our local area/host country. In Technology learning targets the children will learn how to evaluate materials used to market holidays and how to create our own marketing materials to sell a holiday. Whilst learning through the subject of Music, the children will be finding out about music from different countries around the world. In ICT & Computing, the children will learn how to plan a holiday route around the world using QR codes to identify different locations and how to create their own translation app for a world traveller to use on their mobile phone. In their International lessons, the children will learn about what makes a good global traveller and how to create a welcome pack for our school/local area.



Additional learning opportunities:

Children will have the thrilling experience of trying to sell their very own promotional campaign. In groups, they will compete against each other to be the most attractive destination, try to promote their own holiday campaigns and then persuade the rest of the class or even another class to choose their campaign as their chosen holiday.

Fascinating Forces

The Big Idea: Forces are pushing and pulling at everything in our Universe. Even as we sit in our classroom, the walls and the ceiling are pushing and pulling at each other, while gravity and friction hold us in our seats.



Within this unit the children will be learning through a range of subjects: Science, Technology and International. Through the Science learning targets the children will be finding out how a ball flies through the air, what friction is and how it helps us, how different objects fall, what gravity is and how it pulls on objects, how air resistance affects moving objects, how water pushes up on floating objects and why some objects float and others sink. In Technology the children will be learning how to make a sailing boat of a flying paper plane. In their International learning the children will be finding out how countries use natural forces as energy and how we can work together to meet our energy needs without harming our planet.



Additional learning opportunities:

The children can enjoy taking part in games of tug of war at the start of the unit. They can get involved in some fun activities to demonstrate a pulling force in real life.



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.

Within this unit, the children will be learning through a range of subjects: History, Music, Art and International. In History, the children will be learning 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 and about the history of Britain, from the Roman occupation to the Norman Conquest. Through the learning targets in Music, the children will be finding out how to write and perform our own Greek chorus. In their Art learning, the children will be learning about Ancient Greek and Roman art and how to create our own piece of art in a Greek or Roman style. In their International learning the children will be finding out about the effects of invasion on countries around the world.



Additional learning opportunities: Children will have the exciting opportunity to dress as a Roman soldier. The children will be led through a soldiers' drill and a mock barbarian battle. They will experience what it was like to be a Roman soldier in Ancient Roman times.

Space Scientist



The Big Idea: In this unit, the children are future scientists who have to deal with the big questions concerning the Earth and our place in space. Some people now believe that the colonisation of space is essential for humanity's long-term survival. Could the Moon be a source of clean energy, and could Mars our be our future home?

Within this unit the children will be learning through a range of subjects: Science, Technology and International. Through the Science learning targets the children will be finding out how we can prove that Earth is a sphere, what our planet is made of, if the Earth is a magnet, about the Earth's atmosphere, why we need the Sun, how the Sun, Earth and Moon are connected, why the Earth's rotation results in day and night, how to make a shadow clock, how the tilt of Earth's axis gives us the seasons, how the Moon affects the Earth and if there is a better place to live than Earth. In Technology the children will be finding out about the Saturn and Soyuz rockets and how we can make a model rocket. Through their International learning the children will be finding out about mining clean energy on the Moon, about future colonisation of another planet and about the ethics of space tourism.



Additional learning opportunities: The children will be given the exciting opportunity observe the first moon landing. They will experience what it would be like to land on the moon and explore the harsh terrain and lack of gravity.



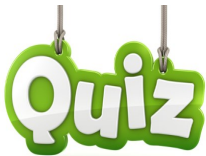
Weather and Climate



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

Within this unit the children will be learning through a range of subjects : Geography, Science, Technology, ICT and Computing and International. In Geography, the children will be learning 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 and about some extreme weather records. Through their Science learning, the children will be finding out how to conduct experiments to simulate weather types, how to make predictions, observations, and draw conclusions and about ways we can measure and record weather. In Technology the children will be learning how to design and build our own weather station instruments and about the different types of modern technology used to measure the weather. In their ICT & Computing learning targets, the children will be finding out 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' and why it's important to be respectful when leaving comments and feedback online. In International, the children will learn about climate and environmental problems in our home and host countries and what simple things we can do to improve our environment.

Additional learning opportunities: Children will have the exciting opportunity to create an interactive quiz involving all the knowledge they have gained throughout the unit. They will also be creating weather measuring devices and using them to measure the weather over the course of the unit.



Bake It!



The Big Idea: We are going to find out about science by making bread. The processes involved in bread-making can teach us how molecules behave in different materials (solids, liquids and gases) and how these materials can be changed.

Within this unit the children will be learning through a range of subjects: Science, Technology and International. Through the Science learning targets the children will be finding out how live yeast grows, how carbon dioxide behaves, which solids dissolve in water, about water vapour and evaporation, what happens when foods are heated, about the properties of water, about solids, liquids and gases and how we can group everyday materials according to their properties. In Technology the children will be designing and making a brand of food. Through their International learning the children will be finding out why bread gas importance for people all over the world and why there are food shortages in some parts of the world and what we can do to help.



Additional learning opportunities: The children will be given the opportunity to taste breads from around the world before they design and then bake a new brand of bread that aims to target a specific audience.