

## Science

**Badgers and Dragonflies – Animals including humans:** Children will learn that animals and humans need food to provide nutrition because they cannot produce their own food. The children will understand how the skeleton and muscles of the body support, protect and help animals and humans move.

**Roe Deer – The digestive System:** Children will study how their body digests food and gains nutrients. They will learn to name the different parts of the digestive system and their roles in the body. We will also study teeth and types of teeth and their roles in the body.

**Foxes – Properties and changes of material:** The children will look at separating, filtering, sieving and evaporating solids, liquids and gases. The children will learn about reversible changes of state such as dissolving and irreversible changes such as burning. Children will understand the properties of everyday materials and their uses.

**Kestrels – Light:** The children will recognise that light appears to travel in straight lines and explain that objects are seen because they give out or reflect light into the eye. They will use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. They will also investigate what happens when light travels through water or prisms and experiment with using different coloured filters to find out how this affects the colours we see.

**Literacy** – We will be basing our literacy for the first half of term on the life of an evacuee during the Second World War. We will be using key texts such as Carrie's War, The Lion and the Unicorn and Goodnight Mr Tom as a foundation for our writing. The children will be writing in a number of styles including newspaper reports, diary writing, letters and non-fiction fact pages. We will also be using our school trip to the Bluebell Railway as a stimulus for our writing.

# Evacuation

Juniors Cycle 4 - Autumn Term 1

**Computing** – This term we are going to begin by focusing on internet safety to ensure all of the juniors can confidently and safely work online. Children will learn about how the internet, email and blogging provide opportunities for world-wide communication. They will look at the benefits and drawbacks of sharing information online. We will then be focusing on word processing skills.

**History** – During this unit we will be travelling back in time to 1939 and the start of World War II. Not only will we be studying the key events during the war such as the Battle of Britain, The Blitz, propaganda, rationing and air raid shelters, but also the impact of all these events on society. The children will use a wide range of sources to investigate the influence of the war on the local area especially looking at evacuation. The children will also get to have an evacuation experience at the Bluebell Railway.

**Design and Technology** – Linked with the topic 'Evacuation', children will learn about Andersen Shelters and their purpose during WWII. Children will consider which materials and structures will be useful for an Andersen Shelter by making predictions, testing and evaluating them. Children will then use what they have learnt to build their own shelter. Finally, children will evaluate their final products against their design and consider improvements.

**P.E** - Children will participate in a variety of invasion games including tag rugby, basketball and hockey. Focus of the sessions will be on tactics during game situations, team work, sportsmanship and game skills.

**Gym**- Children will be focusing on balance and how to maintain strength and control. They will be creating sequences using these skills and assessing their own work.

**PSHE**- Our assembly and Circle Time theme is Golden Rules.

**Music** Y3 & 4 will be looking at rhythmic notation using crotchets, quavers, minims and rests in order to read, clap and write simple rhythm patterns so they can then learn to play a piece on the glockenspiels. Y5 & 6 will be using the rhythm of words to create their own compositions. Foxes will compose a fanfare & Kestrels a rhythmic chant.

**Science – Y2/3 – Rocks and Soils – Children will:** compare and group together different kind of rocks based on appearance and physical properties; describe how fossils are formed and recognise that soils are made from rocks and organic matter.

**Y4 – Electricity - Children will:** identify common appliances that run on electricity; conduct circuits and name parts of a circuit; know that circuits have to be complete to work; learn about switches and how they work and recognise conductors and insulators.

**Y5 – Earth and Space – Children will:** describe the movement of the Earth and other planets relative to the Sun; describe the movement of the moon relative to the Earth; describe the Sun, Earth and Moon as approximately spherical bodies and use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.

**Y6 – Forces: Electricity - Children will:** associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit; compare and give reasons for variations in how components function; including the brightness of bulbs, the loudness of buzzers and the on/off position of switches and use recognised symbols when representing a simple circuit in a diagram.

**Literacy** – Our Literacy theme for this half term is 'Vile Villains'. The children will be using a range of high quality texts to build an understanding of villainous characters and use these as inspiration to create their own villain. The children will create a narrative based on their villain which includes description and dialogue. The children will also explore the theme of 'evil' teachers in stories and write formal letters to parents from their own 'evil' teacher. Key aspects of grammar, punctuation and spelling from the National Curriculum for each year group will be embedded in this exciting context.

**R.E** – The children will be learning about the places of worship of a range of major religions in the UK. They will study the reasons people of different faiths visit buildings, the key features and practices which take place in them. To enrich this topic, the children will be visiting a church and a masjid.

**P.E** - All year groups will be focussing on invasion games. Children will also continue to look at balance in gymnastics.

**PSHE** – Our theme for circle time and assemblies is 'Caring and Sharing'.

## Brilliant Britain / Vile Villains Juniors Cycle 4 - Autumn 2

**Art** - Children will develop their line, pattern, shape and colour skills through study of building features and artist Friedensreich Hundertwasser. They will use skills learnt to create a final abstract piece representing a building or group of buildings using ideas from their sketchbook and Hundertwasser artwork.

**Music** – Y2/3/4 will be using the elements of music and inspiration from the topic 'Vile Villains' and famous poetry to compose a musical story.

Y5 will be preparing a group glockenspiel waltz, thinking about 3 & 4 beat music.

Y6 will be working in pairs to learn to play the melody or bass line of simple pieces to then create a longer piece of music in Rondo form.

**French** – Y2/3/4 – Children will learn French numbers and how to ask and answer personal questions (name and age).

Y5/6 – Children will be learning how to introduce their family and give information about them.

**Geography**- The children will be learning all about the UK and their locality. They will name and locate the countries, counties and cities of the UK, geographical regions and their identifying human and physical characteristics. They will describe key aspects of human geography, including types of settlement and land use. In addition, they will learn how to use the eight points of a compass, grid references and symbols (including the use of Ordnance Survey maps) to build an understanding their local area. They will identify features in the local area using maps and create their own maps using their knowledge.

**Science – Y3 – Plants** – identify different parts of plants and their functions, explore what plants need to survive and how this differs between plants, how water is transported within plants, exploring the part that flowers play in the life cycle of flowering plants including pollination, seed formation and seed dispersal.

**Y4 – States of Matter** - The children will learn the differences between solids, liquids and gases and identify their properties. They will learn about melting, freezing and evaporating. The children will also be learning about the water cycle.

**Y5 – Earth and Space** – describe the movement of the Earth and other planets relative to the Sun, describe the movement of the moon relative to the Earth, describe the Sun, Earth and Moon as approximately spherical bodies, use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.

**Y6 – Electricity** - associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit, compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches and use recognised symbols when representing a simple circuit in a diagram.

### **Literacy – Greek Mythology**

The children will begin by exploring several Greek myths, with a focus on themes and conventions across the different stories. Inspired by Greek mythical monsters, the children will create their own creature and write a non-fiction explanation of its appearance and powers. The children will be producing their own short stories using the myths and legends genre, focusing on using descriptive writing and building character and atmosphere.

### **R.E – Symbols and Actions**

Children will explore the meanings of symbols and actions used in worship such as bowing down, making music together, sharing food or speaking to God (e.g. in prayer). Linking to English, children will find out about different forms of prayer and meditation in different religions and worldviews, and write some prayers or meditations suited to particular occasions and traditions.

**P.E** – PE lessons will be focussing on 'Multiskills' which build strength, agility and speed through a range of fun activities and obstacle courses. Children will also be learning about traditional Greek dance.

## **Ancient Greece**

### **Juniors Cycle 4 - Spring Term**

#### **Art – Clay Pots**

Children will understand the use of pots in Ancient Greece and how they inform us about life at that time. They will know the key features of the pots – shape and decoration. They will learn how to use clay to make a pot or a tile, using joining skills and making use of line and repeated patterns, basing their designs on Ancient Greek patterns.

#### **DT – Moving Toys**

Children will investigate pneumatic systems and design and make their own moving monster toy (linked to their Literacy work) using a pneumatic system.

#### **Music –**

Badgers & Dragonflies will be learning about the parts of an orchestra and how pitch is written in order to read music and learn to play 3 note melodies.  
Roe Deer will learn about notes of scale in order to learn to read and play 5 note melodies.  
Foxes & Kestrels will investigate pitch and learn how to read treble notation on the staff in order to play simple melodies.

### **History – Ancient Greece**

In this unit the children will learn about the Ancient Greeks - who they were, when they lived, where Greece is and the different elements of the Greek empire and the impact the Greeks had on life today. They will explore daily life in Ancient Greece, Greek gods and goddesses, the culture and the legacy of the Olympic Games.

### **Computing – Coding**

In computing we will be learning about algorithms, working with various forms of input and output and continuously 'debugging' along the way. This will be achieved through a variety of fun practical and online computing activities and will ultimately involve the children programming hardware using code.

**Science – Y3 – Forces and Magnets** – Compare how things move on different surfaces. Notice that some forces need contact between two objects but magnetic forces can act at a distance. Observe how magnets attract or repel each other and attract some materials and not others. Compare and group together a variety of every day materials on the basis of whether they are attracted to a magnet and identify some magnetic materials. Describe magnets as having two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing.

**Y4 –Living things and their habitats** - Identify and name a variety of living things in their local and wider environment and recognise that environments can change which can sometimes pose dangers to living things. Construct and interpret a variety of food chains, identifying producers, predators and prey.

**Y5 – Living things and their habitats** – Describe the difference in life cycles of a mammal, an amphibian and a bird; describe the life process of reproduction in some plants and animals.

**Y6 – Animals Including Humans-** identify and name the main parts of the human circulatory system and describe the functions of the heart, blood vessels and blood; recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function; describe the ways in which nutrients and water are transported within animals, including humans. **Evolution and Inheritance** - recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago, recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents, identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

### Literacy

During the first few weeks of this half term, the Titanic will provide our stimulus for literacy. Children will be taken back to the time of the tragedy and produce a range of written work, including a diary, persuasive advert, informal letters and a newspaper report. The children will then use *The Wind in the Willows* by Kenneth Grahame as a stimulus for writing dialogue, setting descriptions and to explore character.

## H2 O Juniors Cycle 4 - Summer Term

### Art

The children will focus on the work of artist Bryan Wynter. They will learn how to explore and represent line in different media and will develop control of a variety of tools for mark making and design. The children will produce a final piece using fabric, inks, dye, pastels and wax crayons.

### Geography

In Geography this term the children will be learning about rivers and coasts. The children will learn about the physical features of rivers and coastal formations with a focus on our local river basin, including floodplains, and the effect of human activity on rivers and the sea. They will also learn about the wildlife that live in our rivers and coasts and how they are adapted to these environments. Our trip to Cuckmere Haven will enrich the children's knowledge about river processes.

### DT

Children will be learning about reinforcing structures through the design of bridges. They will be looking at designers and key breakthroughs in bridge design and be using these ideas to design and evaluate their own bridge for a 'best bridge' competition.

### R.E

Children will be studying belief in God and Worship. The unit will begin by looking at a religion that involves belief in one god and another that involves belief in more than one god. Children will then move on to look at three different forms of worship. They will look at these firstly through one religion and then move on to comparing how other religions use prayer, meditation, music and artefacts in worship.

### French

Y3/4 – Likes and dislikes, animals  
Y5/6 – Describing yourself, sport

### P.E

The PE focus this half term is tennis. After half term, the focus will be athletics. In dance, the focus will be on exploring rhythm and space. The children will learn a dance adapted from the film 'Happy Feet' to the song 'Boogie Wonderland'.

### Music

Badgers will be learning about the evolution of music throughout the 20th century through listening to music, research and performance. Dragonflies and Roe Deer will be practicing note reading so they can learn to play new melodies and will be singing songs from 'Ocean World'. Foxes will be learning about Handel's 'Water Music' & using their note reading skills to learn to play the main theme. Kestrels will be learning about the 12 bar Blues and using 'Garage Band' on the iPads to record their own Blues piece.

### Computing

The children will select, use and combine a variety of software on a range of digital devices to design, edit and create a video about Cuckmere Haven.