

### Science

In the Forces and Mechanisms project, your child will revisit prior learning about forces, identifying what a force is. They will then learn that gravity is a force of attraction and follow instructions to observe gravity in action. They will learn the meanings of the terms 'mass' and 'weight' and their units of measurement, following instructions to record the mass and weight of various everyday objects. They will learn about the frictional forces called air and water resistance in detail and conduct investigations to observe these. They will also learn about mechanisms, including gears, pulleys and levers and follow instructions to investigate how these simple machines use forces to make tasks easier.

In the Earth and Space project, your child will learn the names of the planets in the Solar System before creating a model outdoors to describe its scale, movement and features. They will learn how scientists throughout history used different methods to study the Solar System and came to understand how the planets orbited the Sun. They will learn how people in ancient civilisations believed the Earth was flat and how evidence proved the Earth was a sphere. They will learn that the Earth's tilt and rotation as it orbits the Sun creates different seasons and day lengths in the Northern and Southern Hemispheres and the effect of similar amounts of direct sunlight all year round in the tropics.

### Design and Technology

In our Moving Mechanisms topic, the children will learn about pneumatic systems. They will experiment with pneumatics before designing, making and evaluating a pneumatic machine that performs a useful function.

### PSHE

Using the SCARF curriculum, our first unit will be called 'Me and My Relationships', in which we will explore the importance of working together, solving friendship problems and knowing how to be assertive and say no to peer pressures that may occur.

In Autumn 2, our unit is called 'Valuing Differences' in which the children will understand and appreciate others differences and explore respect and tolerance of others.

### Art

In our, Tints, Tones and Shades topic, the children will learn about colour theory by studying the colour wheel and exploring mixing tints, shades and tones. They learn about significant landscape artworks and features of landscapes before using this knowledge to create landscape paintings.

Our Autumn 2 topic will be Taotie, in which the topic teaches children about the significance and art of the taotie motif, including ancient and contemporary casting methods.

### Music

This term, the children will be taking part in weekly music lessons focusing on singing, rhythm and composition.

### English

Following the structure of Talk for Writing: imitate, innovate and independent application. The children will engage with a variety of fiction and non-fiction texts this half term. We will look closely at a Tale of Fear with the focus of developing our setting description and a Wishing Tale with the focus of both character and setting description. The children will explore and write their own information and discussion texts as well. We will also have opportunities to learn and recite poetry as well as completing some creative writing.

### Geography

During the Investigating Our World project, the children will study Ordnance Survey maps to write a description of the local area. They will learn about contour lines and revise six-figure grid references to locate features on maps. The children will know that the Earth is split into 24 time zones and be able to calculate the time in places worldwide. Your child will also learn about climate zones, vegetation belts and biomes. Later in the topic, the children will learn about the human geography of the continents and locate capital cities around the world. They will also study the motorway network across the United Kingdom, learning how they connect towns, cities and transport links across the country.

### Computing

During the Autumn term, we will be recapping on the importance of knowing how to stay safe online. We will also begin to explore a multi-media unit to familiarise the children with programmes like Word and PowerPoint.

### Religious Education

Following our agreed RE syllabus, in Autumn 1 the children will explore 'What does it mean if Christians believe God is Holy and loving?'. During Autumn 2, the children will explore 'How can following God bring freedom and justice?'.

### Maths (Year 5)

In Maths, the children will be looking at place value; focusing on reading, writing, ordering and comparing numbers within a million as well as focusing on rounding. We will then move onto addition, subtraction, multiplication and division in which the children will become fluent and confident in answering questions with 4 or more digits. They will use these key skills to also answer missing digit questions and contextualised problems. We will also look at developing our fraction knowledge of being able to find equivalent fractions, as well as adding and subtracting fractions.

### Maths (Year 6)

In Maths, the children will start by looking at place value; focusing on reading, writing, ordering and comparing numbers within 10,000,000, as well as being able to round any given number. They will then move onto developing their confidence in answering questions with the 4 operations; addition, subtraction, multiplication and division. Later in the term, we will start to explore fractions, looking at equivalent fractions, mixed number fractions and improper fractions.

# Autumn Term

### French

In French, the children will be focusing on a unit called 'Getting to know you'. The children will explore their future plans and dreams including exploring different jobs. The children will also explore the French alphabet and spellings by using a bilingual dictionary. They will also start to read texts in French and have a go at writing a paragraph about themselves.

### Physical Development

This term the children will be taking part in a variety of invasion games to develop their team work skills, as well as developing a wide range of skills. These will be developed through a variety of different sports.

### History

In Dynamic Dynasties, the children will learn about periods of ancient Chinese history. They will explore a timeline of the first five Chinese dynasties and learn about the legends surrounding the beginning of Chinese civilisation. They will take a deep dive into the history of the Bronze Age Shang Dynasty and explore evidence found in the ancient city of Yin. They will study oracle bones, learn about religious beliefs and explore bronze artefacts that set the Shang Dynasty apart from other civilisations. They will also study the hierarchy of the Shang Dynasty and discover who was powerful and who was powerless. They will look at warfare and find out how bronze technology gave the Shang Dynasty an advantage over their enemies. To end the project, your child will find out how ancient China's lasting legacy can be seen in the world today.

