



Orleans Primary School

Year 5 Spring Overview



Science

Earth and Space

In this unit we will develop knowledge of the Earth's (and others planets') place in the solar system, and their relationships with other bodies in space, in particular with the Sun. We will also investigate day and night, the seasons and sunsets, as well as look at the moon and its different phases.

Living Things and their Habitats

In this unit, children will deepen their understanding of life cycles for amphibians, birds, mammals and insects. We will also look at flowers and plants and how they change throughout the year. We will also recap naming parts using scientific vocabulary.

Music

We will continue to build on their composition skills working together to use percussion to further develop their understanding of musical notation. They will also continue to develop their singing voices to accompany music.

PE

Remember to wear your PE kit to school. We will be improving our tag rugby and football skills as well as our golf!

PE is on **Tuesday** and **Wednesday**.

Computing

We are going to look at how computers are networked together in our school and how this affects the World Wide Web and the Internet. The children will then be using their knowledge to design a webpage in the second part of the term.

French

The aim in Year 5 is to begin consolidating the children's knowledge of French language and culture, as well as to explore other interesting cultural topics. Here are just some of the topics we will be exploring this year: at school - lessons and expressing opinions on different subjects; my daily routine; music; a study of a Francophone country; a book study; and, a film study.

RE

Commitment: We will be discussing the concept of commitment and looking at examples made by famous figures. We will be encouraging the children to make their own goals and to review their commitment each week. Children will explore the concept of sacrifice and why sacrifices may be made. They will examine a range of religious and non-religious commitments and sacrifices made by other.

Forgiveness: The children will explore what is meant by forgiveness and rolls it plays in world religions. They will learn about and compare Jewish and Buddhist beliefs and teaching around forgiveness. The children will explore the feelings involved when people forgive and are forgiven.

READING

Children should read for a minimum of **15 mins** at home every night. We do encourage them to read to an adult so they can practice reading aloud.

PLEASE BRING BOOKS AND DIARIES TO SCHOOL EVERY DAY – WE WILL HEAR CHILDREN READ AS OFTEN AS POSSIBLE.

Art - Every picture tells a story

Looking at the meaning behind art, we: analyse the intentions of Banksy; make ink symmetry prints inspired by psychologist Rorschach; tell a story using emojis; use drama to recreate a poignant war scene and are inspired by the ceramic work of Magdalene Odundo.

DT – Textiles: Stuffed Toys

We will be bringing our drawings to life, applying previous skills and learning a new stitch – The blanket stitch!

Geography

Over the Spring Term, we will be developing our Geography skills to consider how mountains form. The children will be comparing mountain ranges in Britain and around the world to understand the human and geographic importance of mountains.

History

We will be starting our new topic in history, focusing on the question: What did King George VI mean when he said, 'The history of York is the history of England'? Through this, we will investigate different periods including the Romans, Vikings and the Civil War.

English

This term we will be looking at two genres: a Graphic Novel and Traditional Tales.

Through these books we will develop a range of skills with the children and will produce several pieces of written work, including:

- Persuasive arguments
- Poems
- Letters
- Descriptive writing
- Newspapers
- Script writing
- Story writing

Maths

Area and Perimeter

Pupils will calculate and compare the area of rectangles in square centimetres and square metres and link to their understanding of multiplication arrays. They will estimate the area of non-rectilinear shapes that are presented on a grid by counting squares and parts of squares. Pupils are introduced to volume using 1 cm^3 blocks to build cuboids and will develop an ability to estimate volume and capacity.

Fractions and Decimals

Pupils will revise the different ways in which fractions can be presented with a focus on fractions of a whole using area models (e.g. shading in equal sections in shapes) and fractions as numbers, positioning them on number lines. Pupils identify equivalent fractions and compare and order fractions. We will look at the equivalence of fractions and decimals as they are different representations of the same thing and should not be seen as separate. Children will represent fractions and decimal numbers in a variety of ways and write decimal numbers as fractions. Pupils will be introduced to numbers with up to three decimal places, extending to thousandths for the first time. They develop an understanding of the relationships between ones, tenths, hundredths and thousandths and will compare and order decimals. They then apply their understanding of equivalent decimals and fractions to compare and order decimals and fractions.

Angles

Pupils revise their understanding of angles including acute and obtuse angles and are introduced to reflex angles as those greater than 180° . They use this knowledge to identify and compare angles in a range of situations. Pupils will learn to use a protractor to measure and draw angles in degrees. Pupils identify that angles at a point total 360° and angles at a point on a straight line total 180° .

Fractions, Decimals and Percentages

Pupils calculate with fractions and decimals. They start with addition and subtraction of fractions with the same denominator, and then fractions with denominators that are multiples of the same number. They multiply fractions by a whole number and connect this to finding fractions of an amount. They will also explore finding fractions of something as well as thinking of a fraction as the result of division.

Pupils are introduced to percentage as 'the number of parts per hundred' and understand that fractions, decimal fractions and percentages are different representations of the same thing. They identify and calculate percentages in a range of situations.

Transformations

Pupils will revise how to describe positions on a 2-D grid as coordinates with both positive and negative numbers. Pupils will identify, describe and represent the position of a shape following a translation and know that the shape has not changed. They will reflect shapes and identify, describe and represent the position of the shape and know that the shape has not changed: it is a congruent shape.