



Orleans Primary School

Year 5 Autumn Overview



Science

Materials

In this unit we look at materials and their properties, including reversible and irreversible changes. We discuss solids, liquids and gases and how we can move between these states. We will also be experimenting with materials for different uses as well as spending lots of time planning our own experiments based around the materials topic.

Computing

We will be discussing how to use the internet, covering e-safety and the dangers online. We will learn how to search effectively using search engines such as Google and Yahoo and learn how to research about topics of interest. In the second half term, we will look at Excel and some of the functions that you can use to format Spreadsheets.

PE

Remember to wear your PE kit to school. We will be improving our hockey and netball skills as well as our dance and gymnastics skills.

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

Music

Children will be learning about One More Round and Rhythm Is Gonna Get You using: pitch, chords, percussion and body percussion. Children will also be learning to identify the duration of notes using the treble clef.

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

Jesus the Healer: We will be focusing on the healing miracles performed by Jesus. The children will become familiar with a selection of miracles within the Bible. They will then look at different types of miracles performed by Jesus.
Christmas for Christians: The children will start by questioning the meaning of Christmas to them and then learn about the Christian meaning of Christmas. The children will consider if the true meaning of Christmas is still present today and question if the meaning has changed.

HOMEWORK:

**SET ON TUESDAYS
IN ON MONDAYS**

Art

Still Life: The children will learn how to improve their sketching skills by drawing objects arranged in different ways. Shading and tone skills will be developed.

DT

Marble Runs: The children will be designing and creating their own marble run.

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.

Geography

This term, we will be using the skills that we acquired at Hooke Court on rivers, to build and extend our expertise. We will learn about tributaries, estuaries and streams. We will also expand our understanding of the water cycle and how it impacts our lives alongside, improving our map reading skills.

History

We will learn about the Battle of Britain and discuss the different factors that led to Germany's loss using a variety of sources (including photographs, maps and extracts of communications between Hitler and troops).

English

This term we will be looking at two genres: a Modern Novel and Poetry.

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

- Diary entries
- Speeches
- Poems
- Letters
- Descriptive writing
- Autobiographical writing
- Story writing

Maths

Reasoning with large whole number

Pupils will continue to work with large integers throughout Year 5 and calculate with them in a variety of contexts. Their understanding of integer place value will provide a firm foundation to support their understanding of place value when decimal fractions are introduced later in the year.

Addition and Subtraction

Pupils will use larger (5-digit and 6-digit numbers) integers to add and subtract. Pupils will calculate with large integers in a variety of contexts throughout Year 5. Their understanding of integer problem solving will provide a firm foundation to support their understanding when calculating with decimal numbers and fractions later in the year.

Line graphs

Pupils will interpret and create line graphs and solve comparison, sum and difference problems using information presented in this way. They will also complete, read and interpret data presented in charts, including timetables. They solve a range of problems using data presented in this way, including calculating time intervals using both the 12-hour and 24-hour clock.

Multiplication and Division

Pupils will consolidate their understanding of factors and multiples by finding factor pairs and common factors of two numbers. They are introduced to the terms 'prime number' and 'square number'. Pupils will multiply and divide whole numbers by 10, 100 and 1000. They will gain a secure understanding of the relationship between this concept and place value. It is assumed that pupils know their multiplication facts up to 12×12 and they will learn how to use these facts in a variety of ways to calculate with larger numbers. Pupils will multiply and divide whole numbers by 10, 100 and 1000. They will gain a secure understanding of the relationship between this concept and place value.

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.