

Key Vocabulary

Planets
Astronaut
Milky Way
Solar System
Moons
Northern Hemisphere
Southern Hemisphere
Equator
Hands
Face
Cogs
Extra Terrestrial
Meteor
Shooting Stars
Tim Peake
Helen Sharman
Drone

The Final Frontier Clocks

Key questions for this area of learning:

The Final Frontier

Who named the planets?
Is Pluto still a dwarf planet?
How many dwarf planets are there?
Did Uranus blow up?
Are there other planets?
Why do some planets have more than one moon?
How many moons do planets have?

Time

Who invented the clock?
Why is it dark at night time?
What did the first clock look like?
Why are there different time zones?

Key people studied:

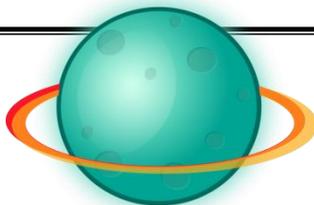
Tim Peake
Helen Sharman

Art skills and learning:

Children will use line, tone and shading to represent objects they can see. They will learn skills needed to sketch clocks, paying close attention to detail .

Home learning ideas/places to visit

Building a model of the solar system
Planet Pavilion at Jodrell Bank



Science key area of learning:

Earth and Space
Forces

Science working scientifically skill development:

Take measurements using a range of scientific equipment with increasing accuracy and precision, taking repeat readings where appropriate.

Plan different types of scientific enquiries using questions, recognising and controlling variables where necessary

Record data and results of increasing complexity using scientific diagrams, classification keys, tables, scatter graphs, bar and line graphs

Use test results to make predictions and set up further comparative and fair tests

Science knowledge and understanding:

Describe the movement of the Earth and other planets relative to the sun in the solar system
Describe the movement of the moon relative to the Earth
Describe the Sun, Earth and Moon as a proximity, 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
Explain the unsupported objects fall towards the earth because of the force of gravity acting between the earth and the falling object
Identify the effects of air resistance, water resistance and friction that act between moving surfaces
Recognise that some mechanisms including levers, pulleys and gears allow a smaller

Key areas of maths learning:

Multiplication and division
Fractions
Decimals and percentages

Topic links to maths learning:

Time
Distance
Temperature

Key areas of English learning:

The Nowhere Emporium (Narrative)
Poetry: The Magician's hat, She is, Mum Says, What can a poem do?

Topic links to English Learning:

Planet Fact Files (Non Fiction)
Guided reading: Do aliens exist? Comprehension tasks based on

Physical Education skills development and activity:

Gymnastics

Children will learn to perform a sequence of one footed leaps and will be encouraged to develop and interest in participating in sport Gymnastics. Children will identify different levels of performance and use subject specific vocabulary.

Orienteering

Children will be encouraged to develop interest in participating in sports activities and events at a competitive level. Pupils will learn to identify different levels of performance and use subject specific vocabulary's activities and events at a competitive level.

Religious Education

Spring 1: Hindu Beliefs

Key Question: How can Brahman be everywhere and in everything?

Spring 2 :Easter

Concept: Salvation

Key Question: How significant is it for Christians to believe God intended Jesus to die?

History Skills and learning:

Pupils will compare sources of information available for the study of different times in the past.

Pupils will discuss and investigate how our knowledge of the past is constructed from a range of sources.

We will present findings and communicate knowledge and understanding in different ways and provide an account of a historical event based on more than one source.

Computing skills and learning:

Pupils will understand the need to only select age appropriate content. We will design, input and test an increasingly complex set of instructions to a program or device.

Children will design, write and test simple programs that follow a sequence of instructions or allow a set of instructions to be repeated. We will also design write and test simple programs with opportunities for selection, where a particular result will happen based on actions or situations controlled by the user.

Pupils will use logical reasoning to explain how increasingly complex

Geography skills and learning:

Children will identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich Meridian and time zones (including day and night).

We will begin to look at *physical and human features of the locality*. We will also consider the wider context of places e.g. county, region and country.

Language Development (French):

Pupils will know how to conjugate some high frequency verbs. Children will learn to make changes to an adjective in order for it to 'agree' with the relevant noun and will adapt sentences to form negative sentences and begin to form questions.

Design and technology skills and learning:

Children will carry out market research when designing a moon buggy. They will justify their ideas and create prototypes of their design. Pupils will make careful and precise measurements to ensure that holes are in the right place, when constructing their moon buggies. Step by step plans of the design process will be documented and children will evaluate their finished product

Music skills and learning:

Children will play and perform in solo or ensemble contexts with some accuracy, control, fluency and expression. Pupils will use and develop an understanding of formal, written notation which includes staff, semibreves and dotted crotchets.

Children will develop an increasing understanding of the history and context of music. They will listen with attention to detail and recall sounds with increasing aural memory

We will be using 'Can you feel my love' by Bob Dylan and 'Fresh Prince of Bel Air' by Will Smith as our songs this term

PSHE development:

Pupils will be able to explain the functions of the internal organs

As well as the importance of joints. Children will identify stress and stressful situations and think of ways of dealing with them.

Pupils will identify situations where people may need support with their mental health.

We will discuss the value of sleep for our health and explain the possible side effects of lack of sleep.