

Science Learning Targets

Children will:

- Be able to conduct scientific investigations
- Be able to gather evidence from a variety of sources

Living things and their habitats

- Know about the major classifications of living things
- Know about the effects of food chains in a variety of environments
- Understand the relationship between living things and the environment in which they live
- Know about the functions of the major parts of a plant
- Know about factors that affect the growth of plants

Properties and changes of materials

- Know the distinctive properties of different materials
- Know what happens when materials are heated and cooled
- Know about differences between metals and other materials
- Know about the different arrangements of particles in solids, liquids and gases
- Be able to group and classify materials according to their properties
- Be able to identify changes that are reversible or irreversible

Earth and space

- Know about the relationship between the Earth and the rest of the solar system
- Know that day and night are related to the Earth spinning on its axis
- Know about the time taken for the Earth to orbit the sun and for the moon to orbit the Earth
- Know about the effects caused by the Earth moving

Forces

- Know about the nature and effect of gravitational force
- Be able to identify the effects of physical forces
- Be able to measure forces
- Be able to identify the direction of forces

Energy

- Know about the major sources of energy
- Know how energy sources occur, are obtained and used
- Know the basic principles of renewable and sustainable energy

Geography Learning Targets

Children will:

- Be able to collect and record evidence to answer geographical questions
- Be able to identify geographical patterns and to use their knowledge and understanding to explain them
- Be able to use appropriate geographical vocabulary to describe and interpret their surroundings
- Be able to use instruments to make measurements
- Be able to use appropriate techniques to gather information
- Be able to use and interpret globes and maps in a variety of scales
- Be able to explain how physical and human processes lead to similarities and differences between places

History Learning Targets

Children will:

- Be able to find out about aspects of the past from a range of sources
- Be able to describe and identify reasons for and results of historical events, situations, and changes in the periods they have studied
- Know about the ideas, beliefs, attitudes and experiences of the peoples studied
- Be able to place the events, people and changes in the periods they have studied into a chronological framework
- Understand how some aspects of the past have been represented and interpreted in different ways
- Be able to describe how the history of one country affects that of another

Year 5 IPC Topics:

Go With the Flow – *Rivers*

The Great, the Bold and the Brave! - *Classical civilisations: Greece, Rome and beyond*

Mission to Mars – *Living in space*

International Learning Targets

Children will:

- Be able to explain how the lives of people in one country or group are affected by the activities of other countries or groups
- Be able to identify ways in which people work together for mutual benefit

Art Learning Targets

Children will:

- Be able to use a wide variety of materials, forms and techniques to express their emotions, observations and experiences
- Be able to communicate through visual and tactile forms
- Know how artists, craftspeople and designers from a variety of cultures and civilisations use materials, forms and techniques to express their emotions, observations and experiences

Music Learning Targets

Children will:

- Be able to perform as part of an ensemble.
- Play tuned and untuned instruments with control and rhythmical timing.
- Compose musical pieces combining musical elements within a structure.
- To combine lyrics to fit with a beat and to produce a rap performance.

Computing Learning Targets

Children will:

- Be able to use a range of software to present information in a variety of forms that best suits the intended purpose and audience e.g. word processing, multi-media presentations, desktop publishing.
- Be able to use simple programming technology, such as Logo and Scratch.
- Be able to research effectively, understanding how to evaluate the reliability of digital content.

Technology Learning Targets

Children will:

- Be able to respond to identified needs, wants and opportunities with informed designs and products
- Be able to gather and use information to suggest solutions to problems
- Be able to devise and use step-by-step plans
- Be able to work with a variety of tools and materials with some accuracy
- Be able to test and evaluate their own work and improve on it