

Science

SUBJECT DESCRIPTION:

The Science curriculum provides opportunities for students to develop an understanding of important scientific concepts and processes, the practices used to develop scientific knowledge, the contribution of science to our culture and society, and its applications in our lives. The curriculum supports students to develop the scientific knowledge, understanding and skills to make informed decisions about local, national and global issues and to participate, if they so wish, in science-related careers.

The Particle Model

Students will learn that the properties of the different states of matter can be explained using the particle model. They will also learn that scientists' understanding of matter has developed over thousands of years.

Students will discover that water can exist in three states: solid, liquid and gas. They will find out that water is one of our most valuable resources and that it cycles through our environment in a process called the water cycle.

Classification

Students will learn that living things are called organisms and that there are differences between and within groups of organisms. Students will develop an understanding of the classification system used to organise the diversity of life on Earth.

Our Place in Space

Students will learn that the positions of the Sun, Earth and Moon causes change on Earth, including seasons, tides and eclipses. They will discover how scientists can make predictions based on the relative positions of the Sun, Moon, and Earth.

Mixtures

Students will learn that all substances are made of materials that may be mixtures or pure substances. They will discover that mixtures can be separated using a range of techniques.

Food Chains and Food Webs

Students will learn that food chains and food webs allow energy and matter to flow through ecosystems.

Forces and Motion

Students will learn that a force is a push, a pull, or a twist arising from the interaction between two objects. They will learn that change to an object's motion or shape is caused by unbalanced forces acting on the object. Students will also learn about Earth's gravity.

Assessment

Assessment will be by topic tests, assignments, investigations, practical work, and work completed in class.