



TERM 1 2018

SCIENCE

CURRICULUM OVERVIEWS

Pre - Primary

This term, Pre-Primary students will be concentrating on the Biological Sciences strand of the curriculum. They will learn that living things have basic needs including food, water, warmth. They will recognise the needs of living things in a range of situations such as pets at home, plants in the garden or plants and animals in bushland. Students will compare the different needs of plants and animals. Finally, students will go on an excursion to the Perth Zoo to discover how different animals meet their basic needs for survival.

Year 1

This term, Year 1 students will be exploring local environments to identify and describe natural, managed and constructed features. They will record short and long-term patterns of events that occur on Earth and in the sky, such as the appearance of the moon and stars at night. Students will record the weather and the seasons, noting observable changes that occur in the sky and landscape.

Year 2

This term, Year 2 students will examine how living things grow, change and have offspring similar to themselves. They will be able to represent personal growth and changes from birth, recognising that living things have predictable characteristics at different stages of development.

Year 3

This term, students will examine how heat can be produced in many ways and move from one object to another. They will be able to describe how heat can be produced such through friction or motion, electricity or chemically. Students will identify changes that occur in everyday situations due to heating and cooling. They will explore how heat can be transferred through conduction. Finally, students will be able to recognise that heat can be measured using thermometers.

Year 4

This term, students will investigate how forces can be exerted by one object on another through direct contact or from a distance. They will observe how speed is affected by the size of a force and explore how non-contact forces are similar to contact forces in terms of pushing and pulling. Students will compare the effect of friction on different surfaces such as tyres and shoes. They will observe the effect of forces on the behaviour of an object through actions such as throwing, dropping, bouncing and rolling.

Year 5

This term, students will learn how light from a source forms shadows and can be absorbed, reflected or refracted. They will draw simple labelled ray diagrams to show the paths of light from a source to our eyes. They will also compare shadows from point and extended light sources such as torches and fluorescent tubes. Students will classify materials as transparent, opaque or translucent based on whether light passes through them or is absorbed. They will recognise that the colour of an object depends on the properties of the object and the colour of the light source. Students will explore the use of mirrors to demonstrate reflection of light and recognise that refraction of light at the surfaces of different transparent materials, such as when light travels from air to water or air to glass.

Year 6

This term, students will explore sudden geological changes and extreme weather events that can affect the Earth's surface. These include: earthquakes, volcanic eruptions and tsunamis. They will be able to recognise that earthquakes can cause tsunamis. Furthermore, students will describe how people are able to measure significant natural events and explore ways that scientific understanding can assist in natural disaster management to minimise both long and short-term effects. Finally, students will consider the effect of drought on living and non-living aspects of the environment.

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