

# SITHNEY COMMUNITY PRIMARY SCHOOL



## SCIENCE CORE CONCEPTS

### BIOLOGY:

#### Ecosystems

Living things interact with each other and non-living things in their environment to form a community of life in an area. What living things need and how they depend on each other.

#### Evolution

How living things have adapted over time. That inheritance is the passing on of features from parents to offspring.

#### Living Systems

Living things are made of cells that work together to help each other live.

### Chemistry:

#### Matter

All matter in the universe is made of tiny building blocks. Matter on Earth is in the form of solid, liquid, or gas. Solids, liquids, and gases are made of tiny particles called atoms and molecules. Particles combining, mixing and moving in different ways can be used to explain what we see.

### Physics:

#### Energy

There are many different forms of energy, e.g. sound, light and electricity. Energy can be transferred from one object to another and can cause changes.

#### Forces:

Forces are pushes or pulls in a particular direction. Forces can make things move, change speed, direction or change shape.

### Scientific Enquiry

#### Observing over time

Observing or measuring one variable over time to see how it changes.

#### Identifying and classifying

Identifying and naming materials and living things. Investigating how they can be named or grouped.

#### Comparative and Fair Testing

Testing and comparing different materials or objects. Observing or measuring change with one variable while controlling others.

#### Answering Questions using Secondary Sources of Evidence

Answering questions with give data or information and use simple models to describe scientific ideas, phenomenon or processes.

#### Pattern Seeking

Looking for links between variables when there is no causal relationship. E.g. Do smaller seeds germinate more quickly?

#### Investigating Skills

Predict, carry out and conclude, selecting appropriate equipment and recording and explaining findings scientifically.