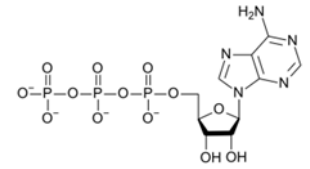




Year 7 Core Science



Overview

Core Science is compulsory in year 7. The course builds on the knowledge and skills developed in primary school. Core Science conforms to the Australian Curriculum where students learn scientific experimental and research skills and study scientific theory.

Students describe techniques to separate pure substances from mixtures. They represent and predict the effects of unbalanced forces, including Earth's gravity, on motion, as well as explain how the relative positions of the Earth, sun and moon affect phenomena on Earth.

Students will analyse how the sustainable use of resources depends on the way they are formed and cycle through Earth systems. They predict the effect of environmental changes on feeding relationships and classify and organise diverse organisms based on observable differences. Students describe situations where scientific knowledge from different science disciplines has been used to solve a real-world problem. They also explain how the solution was viewed by, and impacted on, different groups in society.

Students wishing to continue studying science subjects in years 11 and 12 should perform well in core science in year 7.



Topics studied

Sorting out biodiversity	There are differences within and between groups of organisms; classification helps organise this diversity
Living in harmony	Interactions between organisms can be described in terms of food chains and food webs; human activity can affect these interactions
Pure or not?	Mixtures, including solutions, contain a combination of pure substances that can be separated using a range of techniques
The Earth, Sun and Moon	Predictable phenomena on Earth, including seasons and eclipses, are caused by the relative positions of the sun, Earth and the moon
Earth's resources	Some of Earth's resources are renewable, but others are non-renewable. Water is an important resource that cycles through the environment
Forces in balance	Change to an object's motion is caused by unbalanced forces acting on the object. Earth's gravity pulls objects towards the centre of the Earth

Study Pathways

