



Newton Moore Senior High School

Science

Year 7 Science

2016



Course Description

Science Inquiry Skills

Science inquiry involves identifying and posing questions; planning, conducting and reflecting on investigations; processing, analysing and interpreting evidence; and communicating findings. This strand is concerned with evaluating claims, investigating ideas, solving problems, drawing valid conclusions and developing evidence-based arguments and is carried out over the entire year within the Science Understanding sub-strands.

Science as a Human Endeavour

Through science, humans seek to improve their understanding and explanations of the natural world. Science influences society by posing and responding to social and ethical questions, and scientific research is itself influenced by the needs and priorities of society. This strand highlights the development of science as a unique way of knowing and doing, and the role of science in contemporary decision making and problem solving. It acknowledges that in making decisions about science practices and applications, ethical and social implications must be taken into account. It is carried out over the entire year within the Science Understanding sub-strands.

Science Understanding

The core content of science includes Earth and Space Sciences, Physical Sciences, Biological Sciences and Chemical Sciences.

Earth and space sciences

Learning that predictable phenomena on Earth, including seasons and eclipses, are caused by the relative positions of the sun, Earth and the moon will be the focus of Earth and Space Sciences. In addition to this students will gain the knowledge that some of Earth's resources are renewable, but others are non-renewable and that water is an important resource that cycles through the environment.

Physical sciences

A change to an object's motion is caused by unbalanced forces acting on the object will develop during Physical Sciences. An understanding that earth's gravity pulls objects towards the centre of the Earth will accompany this. Science Inquiry Skills

Biological sciences

Students will learn that there are differences within and between groups of organisms and that classification of these organisms helps to organise this diversity. They will also be taught to understand that interactions between organisms can be described in terms of food chains and food webs and very importantly that human activity can affect these interactions.

Chemical sciences

Students will focus on understanding that mixtures, including solutions, contain a combination of pure substances that can be separated using a range of techniques.

Assessment Outline

Assessment Task	Outcome	Date Due	Student score	Max Score	% Weight
SEMESTER 1					
 Biology					
Task 1 Biology Investigation	Biology/ Science Inquiry	Term1 Week 5		100	5
Task 2 Biology Test	Biology	Term 1 Week 10		100	20
 Science Inquiry					
Task 3 Physics Inquiry	Physics/ Science Inquiry	Term 2 Week 4		100	5
SEMESTER 2					
 Physics					
Task 4 Physics Test	Physics	Term 2 Week 9		100	20
 Earth and Space/					
Task 5 Earth and Space Inquiry	Earth and Space	Term 3 Week 3		100	5
Task 6 Earth and Space Test	Earth and Space	Term 3 Week 8		100	15
 Science Inquiry					
Task 7 Student Investigation	Science Inquiry	Term 3 Week 2		100	10
 Chemistry					
Task 8 Chemistry Investigation	Chemistry	Term 4 Week 4		100	5
Task 9 Chemistry Test	Chemistry	Term 4 Week 6 (in exam)		100	10
 Exam					
Task 10 Exam Semester 2	Earth and Space ,Chemistry, Science Inquiry	Term 4 Week 6		100	5
Semester 1 % Total Weight 15 weeks					30.0
Semester 2 % Total Weight 25 weeks					70.0
Total					100.0

The above weightings are intended to show the importance of each task. The allocation of a grade at the end of a semester is determined based on grade related descriptors issued by School Curriculum and Standards Authority.