



Curriculum Night: 6TH Grade Science

Willows Preparatory School 2017-2018

Mr. Lodholm

I.B. Learning Aims & Goals

Students will participate in learning experiences that are aimed to:

- cultivate analytical, inquiring, flexible minds that pose questions, solve problems, construct explanations and judge arguments
- collaborate and communicate while performing investigations, evaluating evidence and reaching conclusions
- understand and appreciate science and its implications in living and non-living environments

I.B. Learning Objectives

IB Learning Objectives are determined across four objective criterion in Science:

- Objective A – Knowing and understanding
- Objective B – Inquiring and designing
- Objective C – Processing and evaluating
- Objective D – Reflecting on the impact of science

I.B. Grading Criteria

Students will receive a local grade which is percentage based and letter referenced. This can be found in the student handbook.

Additionally, all IB objective criterion will be assessed at least once each trimester. The success in the objective criterion is measured on a 0-8 scale. Limited competency is graded 1-2, adequate 3-4, substantial 5-6 and excellent 7-8. Further detail regarding the grade descriptors is attached.

A cumulative score is calculated for each trimester using the criterion scores and this is referenced on a scale of 1-7. Further details are also attached.



Local Grade

Science notebook	5%
Homework.....	15%
Labs.....	15%
Quizzes.....	15%
Projects.....	15%
Tests.....	20%
Final Exam.....	15%

The following is an outline of the units that will be covered throughout the each trimester. Underlying approaches for each unit involve independently and collaboratively investigating issues through research, observation, and experimentation.

Trimester 1

Nature of Science:

What processes do scientists use when they perform scientific investigations?

Motion and Forces

What are some ways to describe motion?

Newton's Laws of Motion

How do forces change the motion of objects?

Trimester 2 Earth Science

Work and Simple Machines

How do machines make doing work easier?

Earth's Atmosphere

How does Earth's atmosphere affect life on Earth?

Stars and Galaxies

What makes up the universe, and how does gravity affect the universe?

Trimester 3 Life Science

Classifying and Exploring life

What are living things, and how can they be classified?

Control and Coordination

How do the nervous and endocrine systems help maintain the body's homeostasis?