

Curriculum Newsletter for Grade 6 Science

Mr. Bennett

Dear Parents,

This term, your children will get an introduction into flight and space. Below is a chart that briefly outlines the main curriculum expectations that they will be taught and how they will be assessed. For each major project, students will be given a specific outline along with success criteria.

If you have any questions, please do not hesitate to contact me.

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Unit 1: Flight

Curriculum Expectation:	Teaching Strategy:	Assessment:
! Assess the societal and environmental impacts of flying devices that make use of the properties of air	! Small group discussions to access prior knowledge ! individual research on current technologies ! whole group lessons	! Students will research a type of flying device and discuss how it impacts society and the environment
! Investigate ways in which flying devices make use of the properties of air	! Build a variety of flying devices to see how they work ! Use research skills to investigate the similarities and differences between types of flying devices ! Guest presentation	! Students will explain the forces of lift, weight, drag and thrust by using their model ! Students will construct a model flying device ! In-class assignments
! Explain ways in which properties of air can be applied to the principles of flight and flying devices	! Demonstration of how heat affects density of fluids ! Investigative laboratories to observe the properties of air ! Observe flying objects	! Students will report on their measurements and observations from labs ! Quizzes and tests

Unit 2: Space

Curriculum Expectation:	Teaching Strategy:	Assessment:
<ul style="list-style-type: none"> ! Assess the impact of space exploration on society and the environment 	<ul style="list-style-type: none"> ! Small group discussions to access prior knowledge ! individual research on which countries are currently sending people to space ! whole group lessons 	<ul style="list-style-type: none"> ! Students will construct and observe a time keeping device ! Students will report on a country that is currently pursuing space exploration and discuss how that country impacts its society and the global environment
<ul style="list-style-type: none"> ! Investigate characteristics of the systems of which the earth is a part and the relationship between the earth, sun and moon 	<ul style="list-style-type: none"> ! Build models of the moon to demonstrate its phases ! demonstrations of radiant heat energy, reflection and gravity 	<ul style="list-style-type: none"> ! Students will construct a model of the earth, sun and moon and describe the phases of the moon and how they are created ! Students will explain the similarities and differences between the surface of the moon and the earth
<ul style="list-style-type: none"> ! Demonstrate an understanding of components of the systems of which the earth is a part and explain the phenomena that result from the movement of different bodies in space 	<ul style="list-style-type: none"> ! Research gravitational theory ! discuss historical advancements in gravitational theory ! actual observations of celestial bodies 	<ul style="list-style-type: none"> ! Student made observations of celestial bodies ! Student made model of the solar system ! Quizzes and tests