

Curriculum Newsletter for Grade 6 Science

Mr. Bennett

Dear Parents,

This term, your children will get an introduction into electricity and biodiversity. 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 3: Electricity

Curriculum Expectation:	Teaching Strategy:	Assessment:
! Evaluate the impact of the use of electricity on both the way we live and the environment	! small group discussions to access prior knowledge ! individual research on current technologies ! whole group lessons	! students will research a method of electricity generation and evaluate the positive and negative effects on society
! Investigate the characteristics of static and current electricity and construct simple circuits	! build small circuits and figure out how they work ! use research skills to investigate the similarities and differences between static and current electricity	! students will explain how electricity moves ! students will construct different types of electrical circuits ! in-class assignments
! Demonstrate an understanding of the principles of electrical energy and its transformation into and from other forms of energy	! demonstration of how motors can transform electrical energy into rotational movement and how the reverse is also true ! investigative laboratories to observe the properties of electricity	! students will report on their measurements and observations from labs ! quizzes and tests ! students will discuss how energy is converted between different forms

Unit 4: Biodiversity

Curriculum Expectation:	Teaching Strategy:	Assessment:
<p>! Assess human impacts on biodiversity and identify ways of preserving biodiversity</p>	<p>! small group discussions to access prior knowledge</p> <p>! individual research on local ecosystems and the organisms in them</p> <p>! whole group lessons</p>	<p>! students will report on how a local ecosystem has changed over time</p> <p>! students will investigate how biodiversity can be preserved in Guelph</p>
<p>! Investigate the characteristics of living things and classify diverse organisms according to specific characteristics</p>	<p>! develop classification systems for identifying organisms</p> <p>! investigate how animals survive in their environment</p> <p>! guest presentation</p>	<p>! students will classify organisms by a system that they develop</p> <p>! students will explain the similarities and differences between different types of organisms and how they are adapted to survive in their ecosystems</p>
<p>! Demonstrate an understanding of biodiversity, its contributions to the stability of natural systems and its benefits to humans</p>	<p>! research biodiversity in our area</p> <p>! discuss how levels of biodiversity impact the health of the organisms</p> <p>! identify food chains and webs in our area</p>	<p>! student made observations of organisms</p> <p>! quizzes and tests</p>