

Curriculum Newsletter for Grades 7 and 8 Science

Mr. Bennett

Dear Parents,

This term, your children will continue to learn about the safe use of hand and power tools and will build simple machines to complete a given task. We are continuing to focus on using technological problem solving skills to find efficient solutions to problems. They will also explore the properties of fluids and will investigate where our water comes from and where it goes when we are done with it. Below is a chart that briefly outlines the main curriculum expectations that they will be taught and how we will assess them.

If you have any questions, please do not hesitate to contact me at rhys.bennett@ugdsb.on.ca

Unit 3: Fluids

Curriculum Expectation:	Teaching Strategy:	Assessment:
<ul style="list-style-type: none">! Analyze how the properties of fluids are used in various technologies and assess the impact of these technologies on society and the environment	<ul style="list-style-type: none">! Small group discussions to access prior knowledge! individual research on current technologies! whole group lessons! guest presentation	<ul style="list-style-type: none">! Students will research a specific fluid that is used in an industrial or commercial application and report on its impacts
<ul style="list-style-type: none">! Investigate the properties of fluids	<ul style="list-style-type: none">! Investigative laboratories to learn about viscosity, pressure, mass, temperature and volume! Whole class demonstrations of Pascal's Law	<ul style="list-style-type: none">! Students will report on their measurements and observations from labs! In class assignments
<ul style="list-style-type: none">! Demonstrate an understanding of the properties and uses of fluids	<ul style="list-style-type: none">! Use syringes to model hydraulic and pneumatic systems! Use research skills to investigate the similarities and differences between types of fluids! Observe the properties of a variety of fluids	<ul style="list-style-type: none">! Students will construct a working hydraulic system! quizzes and test

Unit 4: Water Systems

Curriculum Expectation:	Teaching Strategy:	Assessment:
<p>! Assess the impact of human activities and technologies on the sustainability of water resources</p>	<p>! Small group discussions to access prior knowledge</p> <p>! individual research on current technologies</p> <p>! whole group lessons</p> <p>! guest presentation</p>	<p>! Students will research a specific fluid that is used in an industrial or commercial application and report on its impacts</p>
<p>! Investigate factors that affect local water quality</p>	<p>! Investigative laboratories to learn about the properties of fresh and salt water</p> <p>! Whole class demonstrations of Pascal's Law</p>	<p>! Students will report on their measurements and observations from labs</p> <p>! In class assignments</p>
<p>! Demonstrate an understanding of the characteristics of the Earth's water systems and the influence of water systems on a specific region</p>	<p>! Investigate where Guelph gets water and how it is treated</p> <p>! Learn about the water cycle and how it works for Guelph's aquifer</p>	<p>! Students will construct a working water filter</p> <p>! quizzes and test</p>