

## Long Range Plan - Grade 8/9 Science 2007-2008

	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>	<b>January</b>
<b>Topic:</b>	Introductory Unit and Unit 1: Matter and Chemical Change	Unit 1: Matter and Chemical Change	Unit 1: cont'd and Unit 2: Environmental Chemistry	Unit 2: Environmental Chemistry	Unit 2: cont'd and Unit 3: Electrical Principles and Technologies
<b>Resources:</b>	<ul style="list-style-type: none"> <li>- Introductory Package</li> <li>- Textbook</li> <li>- Variety of Chemicals</li> <li>- Chemicool website</li> <li>- Variety of online media.</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- Variety of Chemicals</li> <li>- Chemicool website</li> <li>- Variety of online media.</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- Science in a Crate kit</li> <li>- Dissolved oxygen kits</li> <li>- ORC national geographic media</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- Science in a Crate kit</li> <li>- Dissolved oxygen kits</li> <li>- ORC national geographic media</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- Van de Graff generator</li> <li>- Inside education electricity package</li> <li>- Circuits, LED's and Switches.</li> </ul>
<b>Instructional Approaches:</b>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Computer Research</li> <li>- Think, pair, share</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Computer Research</li> <li>- Think, pair, share</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Debate</li> <li>- Jig-Saw</li> <li>- Concept maps</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Debate</li> <li>- Jig-Saw</li> <li>- Concept maps</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Computer Research</li> </ul>

<p><b>Special Activities:</b></p>	<ul style="list-style-type: none"> <li>- Mendeleev's puzzle</li> <li>- Elephants Toothpaste</li> <li>- Exothermic and endothermic reactions demonstrations</li> <li>- Ju-Jube lab</li> <li>- Reaction Rate Cyber Lab.</li> </ul>	<ul style="list-style-type: none"> <li>- Mendeleev's puzzle</li> <li>- Elephants Toothpaste</li> <li>- Exothermic and endothermic reactions demonstrations</li> <li>- Ju-Jube lab</li> <li>- Reaction Rate Cyber Lab.</li> </ul>	<ul style="list-style-type: none"> <li>- Cabbage lab</li> <li>- Dissolved Oxygen lab</li> <li>- Alberta Science Foundation Science in a Crate Activity.</li> <li>- Jeopardy Review</li> </ul>	<ul style="list-style-type: none"> <li>- Cabbage lab</li> <li>- Dissolved Oxygen lab</li> <li>- Alberta Science Foundation Science in a Crate Activity.</li> <li>- Jeopardy Review</li> </ul>	<ul style="list-style-type: none"> <li>- Van de Graff generator lab</li> <li>- Inside Education electricity poster game.</li> <li>- Unit project circuits and lights.</li> </ul>
<p><b>Evaluation:</b></p>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Lab reports (1)</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Introductory Unit Exam</li> <li>- Topic 4-5 quiz</li> <li>- Topic 6-7 quiz</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Lab reports (1)</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Topic 4-5 quiz</li> <li>- Topic 6-7 quiz</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Lab reports (2)</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Topic 1-3 Quiz</li> <li>- Topic 4-6 Quiz</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Lab reports (2)</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Topic 1-3 Quiz</li> <li>- Topic 4-6 Quiz</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Lab reports</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Topic 1-3 Quiz</li> <li>- Topic 4-5 Quiz</li> <li>- Topic 6-7 Quiz</li> <li>- Performance assessment unit project.</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>

	<b>February</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>
<b>Topic:</b>	Unit 3: Electrical Principles and Technologies	Unit 4: Biological Diversity	Unit 4: Biological Diversity	Unit 5: Space Exploration	Unit 5: cont'd and Year End Review
<b>Resources:</b>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- Van de Graff generator</li> <li>- Inside education electricity package</li> <li>- Circuits, LED's and Switches.</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- Microscopes</li> <li>- Learn Alberta website</li> <li>- Science in focus</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- Microscopes</li> <li>- Learn Alberta website</li> <li>- Science in focus</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- CSA website</li> <li>- ADLC materials.</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook</li> <li>- Castle rock KEY and SNAPP workbooks.</li> <li>- Previous provincial exams</li> </ul>
<b>Instructional Approaches:</b>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Computer Research</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Concept Maps</li> <li>- Debate</li> <li>- Research</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Concept Maps</li> <li>- Debate</li> <li>- Research</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Labs</li> <li>- Readings</li> <li>- Debate</li> <li>- Computer Research</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Readings</li> <li>- Concept maps.</li> <li>- Student directed review.</li> </ul>

<b>Special Activities:</b>	<ul style="list-style-type: none"> <li>- Van de Graff generator lab</li> <li>- Inside Education electricity poster game.</li> <li>- Unit project circuits and lights.</li> </ul>	<ul style="list-style-type: none"> <li>- Diversity of animals poster project.</li> <li>- Variation in traits lab.</li> <li>- Cloning controversy debate.</li> <li>- Balloon DNA models.</li> <li>- To burn or not to burn debate.</li> </ul>	<ul style="list-style-type: none"> <li>- Diversity of animals poster project.</li> <li>- Variation in traits lab.</li> <li>- Cloning controversy debate.</li> <li>- Balloon DNA models.</li> <li>- To burn or not to burn debate.</li> </ul>	<ul style="list-style-type: none"> <li>- Model Solar System.</li> <li>- CSA promotional DVD.</li> <li>- Alberta science foundation: Science in a crate activity.</li> </ul>	<ul style="list-style-type: none"> <li>- AQWA water sampling.</li> </ul>
<b>Evaluation:</b>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Lab reports</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Topic 1-3 Quiz</li> <li>- Topic 4-5 Quiz</li> <li>- Topic 6-7 Quiz</li> <li>- Performance assessment unit project</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Lab reports (2)</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Topic 1-2 quiz</li> <li>- Topic 3-5 quiz</li> <li>- Topic 6-7 quiz</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Lab reports (2)</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Topic 1-2 quiz</li> <li>- Topic 3-5 quiz</li> <li>- Topic 6-7 quiz</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Labs</li> <li>- Assignments</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- Topic 1-2 Quiz</li> <li>- Topic 3-5 Quiz</li> <li>- Vocabulary Quiz</li> <li>- Unit Final</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>- Assignments</li> <li>- Year End Review package.</li> </ul> <p><b>Summative</b></p> <ul style="list-style-type: none"> <li>- <u>Final Exam</u>= TBA</li> <li>- <u>Provincial Exam</u> Friday, June 22. 9:00 – 10:15am</li> </ul>

\*\*\* Each term is valued at 20% and the final exam is worth an additional 20%.