

Essential Outcomes and Common Assessments and Evaluations Grade 10 Applied Science

Essential Outcomes	Common Assessments and Evaluations
<p>Chemistry Unit</p> <p>Students will:</p> <ol style="list-style-type: none"> demonstrate an understanding of chemical reactions, the symbolic systems used to describe them. investigate chemical reactions encountered in everyday life and their practical applications. determine why knowledge of chemical reactions is important in addressing environmental concerns. 	<p>KNOWLEDGE: Test I: Atomic Structure, Periodic Table, Naming Ionic & Mol. (E) Test II: Chemical Reactions, Acids and Bases (E) Quizzes: Scientific Method, Atomic Structure, Naming, Balancing (FA) Worksheets: Various (FA)</p> <p>INQUIRY: Chemical Detection Lab (E) Blast Off Lab (E) Household Chemical pH Lab (E) Antacid Neutralization Lab (E) – if time allows</p> <p>MAKING CONNECTIONS: Safety Assignment (MSDS or WHMIS) (E) End of Lab Discussion Questions (E) 2 articles with questions? (E)</p> <p>COMMUNICATION: Part of Lab Evaluation (E) Type of Reaction Cartoons (E) Journal Entries (FA, E)?</p> <p>CULMINATING EVALUATION: Dangerous Chemicals in Society Research & Pamphlet or Waste Disposal Project (E)</p>
<p>Ecology Unit</p> <p>Students will:</p> <ol style="list-style-type: none"> demonstrate an understanding of the diversity of life on earth and the relationships that exist between living things. analyze factors that affect ecological ecosystems, predict the consequences of changing these factors. analyze issues related to environmental sustainability from the perspective of all stakeholders. 	<p>KNOWLEDGE: Test: Ecology End of Unit (E) Quizzes: Food Web, Nutrient Cycles, Population Graphing (FA) Assignment: Food Web (E) Worksheets: Various (FA)</p> <p>INQUIRY: Population Dry Lab? Predator-Prey Assignment (Hare and Lynx) (E) Tragedy of the Commons Activity/Sustainability (E)</p> <p>MAKING CONNECTIONS: 2+ articles with questions (E) Eco-footprint Survey (E) Tragedy of the Commons Activity/ Sustainability (E) Stakeholders Assignment?</p> <p>COMMUNICATION: Population Graphing Assignment (E) Carbon Cycle Cartoon (E)</p> <p>CULMINATING EVALUATION: Endangered Species Project (E)</p>

<p>Motion Unit</p> <p>Students will:</p> <ol style="list-style-type: none"> 1. demonstrate and understanding of different kinds of motion and the quantitative relationships among distance, speed, and acceleration by solving simple problems. 2. analyze everyday phenomena and technologies in terms of the motion involved. 3. demonstrate number sense 	<p>KNOWLEDGE: Test: Motion End of Unit (E) Quiz: Average Speed, Acceleration (FA) Worksheets: Various (FA)</p> <p>INQUIRY: Walking Speed Lab (E) Ticker Tape Lab (E)</p> <p>MAKING CONNECTIONS: 1 article with questions (E) Buying a Car Assignment (E)</p> <p>COMMUNICATION: Distance-Time Graphing (E) Speed-Time Graphing (E) Vector Assignment (E)</p> <p>CULMINATING EVALUATION: Balloon Car Project (E)</p>
<p>Weather/Global Warming</p> <p>Students will:</p> <ol style="list-style-type: none"> 1. demonstrate and understanding of impact and issues surrounding global warming. 2. be able to identify the stakeholders involved with global warming 	<p>KNOWLEDGE: Quiz: Heat Transfer, Parts of the Atmosphere (FA)</p> <p>MAKING CONNECTIONS: An Inconvenient Truth <u>or</u> Strange Days on Planet Earth Video</p> <p>COMMUNICATION: Reading Weather Maps</p>
<p>Final Exam</p>	<p>Written Examination: Culminating Evaluation worth 15% of final grade.</p>