



## Grade 12 Science Grade 12 Interdisciplinary *Topics in Science 40S Draft* November 2008

The seven page document lists four general learning outcomes. The Specific Learning Outcomes of the General Learning Outcomes: A -Nature of Science and Technology and D – Essential Science concepts do not directly relate to the three pillars of sustainability. However, depending on the approach used, they may become related to sustainability.

A number of specific learning outcomes of General Learning Outcome B and C relate directly to sustainability.

For additional information on developing an education for sustainable development approach to an inquiry topic the document [\*Education for Sustainable Development: Kindergarten to Grade 12 Correlation Chart Template and Kindergarten Tool Kit\*](#) will assist teachers in the development of their own ESD activities by incorporating the ESD learning outcomes from the correlation charts or from curriculum documents.

### GLO B - Science, Technology, Society, and the Environment

Explore problems and issues that demonstrate interdependence among science, technology, society and the environment within the context of sustainability

SLO B1: Identify and explore a current STSE issue.

*Examples: clarify what the issue is, identify different viewpoints and/or stakeholders, research existing data/information...*

SLO B2: Recognize that decisions reflect values and consider their own values and those of others when making a decision.

*Examples: maintaining/preserving the environment, generating wealth, maintaining personal and economic freedoms, maintaining health and wellbeing...*

SLO B3: Evaluate implications of possible alternatives or positions related to an STSE issue.

*Examples: positive and negative consequences of a decision, strengths and weaknesses of a position...*

SLO B4: Recommend an alternative or identify a position and provide justification.

SLO B5: Propose a course of action related to an STSE issue.

SLO B6: Reflect on the process used by themselves or others to arrive at an STSE decision.

GLO C – Scientific and Technological Skills and Attitudes Demonstrate appropriate inquiry, problem-solving, and decision-making skills and attitudes, for exploring scientific and/or technological issues and problems.

### Inquiry

SLO C4: Demonstrate work habits that ensure personal safety, the safety of others, and the consideration of the environment.

*Examples: application of WHMIS, proper disposal of chemical or biological specimens....*

### Attitudes and Scientific Habits of Mind

SLO C21: Demonstrate confidence in their ability to carry out investigations and to address STSE-related issues.

SLO C24: Be sensitive and responsible in maintaining a balance between the needs of humans and a sustainable environment.