

Grade Four and Five Workshop

Information on climate change, composting, and the relationship between them will be presented using age appropriate terminology, visual aids, and analysis. In addition to regular curriculum topics, concepts surrounding waste systems, composting and climate change will be introduced.

Presentation of data:

- World Maps (SS)
- Bar graphs, two sided charts, and calculators (Math)
- Masses presented in kilograms and fractions (Math)
- Mathematical concepts represented visually using images, not numbers (Math)

Themes:

- identify and clarify a problem, issue, or inquiry (SS)
- design and implement strategies to address school/community problems or projects (SS)
- Determine how personal choices and actions have environmental consequences (Sc)

Grade 5 only:

- effects of lifestyles and industries on local and global environments (SS)
- sustainability, stewardship, and renewable versus non-renewable natural resources

Concepts:

- Weather impacts on living and non living things (G4 Sc)
- Transportation systems (G5 Sc)
- Impacts of using resources (G5 Sc)

Student Participation:

Workshop will provide many opportunities for practicing oral communications to large and small groups. Personal experiences and prior knowledge will be shared, appropriate questions formulated, and inference and interpretation will be encouraged.

- predict the meaning of unknown words by using structural analysis, context clues, and graphic clues (G4 +5ELA)
- identify the main information given in illustrations, maps, or charts (G4 +5 ELA)
- describe and recount key ideas or information from various media (G4 ELA)
- share what they know about chosen topics (G4 +5 ELA)
- respond informally to the communications of their peers (G4 ELA)

Grade Six and Seven Workshop

Information on climate change, composting, and the relationship between them will be presented using age appropriate terminology, visual aids, and analysis. In addition to regular curriculum topics, concepts surrounding waste systems, composting and climate change will be introduced.

Presentation of data:

- Numbers presented using decimals, ratios, and percents (Math)
- Using and interpreting different types of graphs (Math)
- Various types of maps (thematic, globe, etc) including lat long and scale

Themes:

- identify and clarify a problem, issue, or inquiry (SS)
- design, implement, and assess detailed courses of action to address national/global problems or issues (SS)
- effects of urbanization and technology on lifestyles and environments (SS)

Concepts:

- Global citizenship (G6 SS)
- use of resources and conservation practices in Canada (G6 SS)
- evaluate human impacts on local ecosystems (G7 Sc)

Student Participation:

Workshop will provide many opportunities for practicing oral communications to large and small groups. Personal experiences and prior knowledge will be shared, appropriate questions formulated, and inference and interpretation will be encouraged.

- use information they have read, heard, or viewed to develop questions and activities that will extend their understanding
- compare their own opinions with information presented
- summarize what they know about specific topics or issues and identify and address gaps in the information available

High School Workshop

High school workshops will be delivered with the assumption that students have a basic adult understanding of language, math, and resource use issues, as well as various graphs, charts, and maps. The workshop will be flexible enough to adapt to the curriculum of various high school courses.

Grade 8 Social Studies

- Plan and implement a course of action that addresses a problem

Grade 9 Science

- Thermal Energy, temperature and heat capacity

Grade 9 Social Studies

- Plan, implement and assess a course of action to address a problem

Grade 10 Social Studies

- Plan, implement and assess a variety of strategies to solve a problem.
- Resource development issues and concepts of stewardship and sustainability history and present

Science and Technology 11

This workshop fits loosely with many of the modules in this class:

Resource Management
Energy and Environment Trade-offs
Food Production and Distribution

It also fits closely with two particular modules:

Module 6: Pollution

- outline the detrimental effects of pollutants on society
- relate individual and community responsibilities to societal waste problems
- develop and implement a 3-R (reduce, reuse, and recycle) waste management system at home or school
- describe the effects and possible solutions to various sources of pollution
- identify resources used in B.C. and the costs and benefits of their use

Module 15: The Future

- outline the use of technologies developed to forecast or predict the future
- analyze the effects of technologies on society and predict future effects, locally and globally
- demonstrate an awareness that decisions made today will influence the future of society
- evaluate the impact of information and other technologies on the workplace

- assess the extent to which science and technology are involved in a vocation of particular interest
- assess the impact of technological change on personal relationships and education

Earth Science 11

Students of this course will have knowledge necessary knowledge of environmental sciences for a more complex look at climate change. The workshop fits particularly well with two modules:

Geological Science (Resources and Environment):

- suggest strategies to conserve both material and energy resources
- distinguish between renewable and non-renewable resources

Atmospheric Science (The Atmosphere):

- describe the structure of the atmosphere and the abundance of various substances in it
- describe and demonstrate the relationship of the volume and density of air to pressure and temperature
- describe the effects of the sun's radiation on the atmosphere, including the greenhouse effect, conduction, convection, and radiation
- predict the effects of the changing composition of the atmosphere, such as ozone, water vapour, greenhouse gases, and pollutants