

List of Skills

Science in Media

- identify the ways in which scientific information is conveyed
- discuss how the method of presenting scientific information connects to the purpose
- explain how different formats used to present science information target specific audiences
- formulate testable questions on science-related claims and conduct investigations based on the concept of a fair test
- research science-related information from a variety of sources
- interpret research data, including analysis for accuracy and bias as appropriate, using a range of strategies
- organize and communicate information using graphic organizers
- formulate testable questions about science-related claims and representations in the media
- develop procedures to assess media claims and representations
- evaluate an investigation and suggest improvements
- communicate science-related information to a workplace audience

Interactions of Common Materials

- recognize the relationships among chemical formulae, composition, and common names
- classify chemicals into groups according to their behaviour
- distinguish between chemical reactions and physical processes
- identify the factors that alter the rate of physical processes and chemical reactions
- select and use appropriate lab equipment
- apply WHMIS safety procedures
- conduct experiments to investigate how materials can interact chemically and/or physically
- conduct experiments to determine the factors affecting rates of chemical reactions and physical processes
- communicate the results of investigations using a variety of formats
- research the interactions of materials that are used in daily life
- analyze the costs and benefits of a specific material with reference to its interactions with other materials
- communicate an opinion about the use of a particular material, with consideration for both its physical and chemical interactions

Living Together

- summarize the potential benefits of organisms living together in communities
- identify challenges that arise from organisms living together in communities
- compare the strategies used by various communities of organisms to successfully co-exist
- use appropriate scientific terminology related to concepts of organisms living together
- plan and conduct an experiment to investigate the results of overcrowding
- make accurate observations of the organisms that exist in a community
- make observations to determine the benefits and challenges of living in communities
- use a variety of research strategies to determine the roles of specific organisms within a community
- explain and interpret observations by summarizing patterns

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Master 6

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- develop a simple action plan to address an environmental concern
- determine and explain how humans organize their communities to address challenges of living together

Using Electrical Energy

- describe different methods of generating electricity
- define and describe electrical concepts and their units
- determine quantitatively and/or qualitatively the energy and power associated with electrical devices
- identify the range of uses for electrical energy in our society and the energy conversions involved
- locate and select information to identify factors affecting generation and use of electricity
- design and build an electrical device
- modify an electrical device to increase the amount of electrical energy it produces
- determine and record the electrical energy and power of electrical devices
- communicate information using appropriate formats for specific purposes and audiences
- compare technologies used for generating electrical energy
- design and implement a plan to reduce electrical consumption at home, at school, or in a workplace