

Section 4.3 Environmental Health

4.3.4 Grade 4

A. Know that plants, animals and humans are dependent on air and water.

- Know that all living things need air and water to survive.
- Describe potentially dangerous pest controls used in the home.
- Identify things that cause sickness when put into the air, water or soil.
- Identify different areas where health can be affected by air, water, or land pollution.
- Identify actions that can prevent or reduce waste pollution.

B. Identify how human actions affect environmental health.

- Identify pollutants.
- Identify sources of pollution.
- Identify litter and its effect on the environment.
- Describe how people can reduce pollution.

C. Understand that the elements of natural systems are interdependent.

- Identify some of the organisms that live together in an ecosystem.
- Understand that the components of a system all play a part in a healthy natural system.
- Identify the effects of a healthy environment on the ecosystem.

4.3.7 Grade 7

A. Identify environmental health issues.

- Identify various examples of long-term pollution and explain their effects on environmental health.
- Identify diseases that have been associated with poor environmental quality.
- Describe different types of pest controls and their effects on the environment.
- Identify alternative products that can be used in life to reduce pollution.

B. Describe how human actions affect the health of the environment.

- Identify land use practices and their relation to environmental health.
- Explain how natural disasters affect environmental health.
- Identify residential and industrial sources of pollution and their effects on environmental health.
- Explain the difference between point and non-point source pollution.
- Explain how non-point source pollution can affect the water supply and air quality.
- Explain how acid deposition can affect water, soil, and air quality.
- Explain the relationship between resource use, reuse, recycling and environmental health.

C. Explain biological diversity.

- Explain the complex, interactive relationships among members of an ecosystem.
- Explain how diversity affects ecological integrity of the natural resources.

4.3.10 Grade 10

A. Describe environmental health issues.

- Identify the effects on human health of air, water and soil pollution and the possible economic costs to society.
- Explain the costs and benefits of cleaning up contaminants.
- Explain how common household cleaning products are manufactured and how to dispose of their byproducts after use.

B. Explain how multiple variables determine the effects of pollution on environmental health, natural processes and human practices.

- Explain how human practices affect the quality of the water and soil.
- Identify local and state environmental regulations and their impact on environmental health.
- Analyze data and explain how point source pollution can be detected and eliminated.

C. Explain biological diversity as an indicator of a healthy environment.

- Explain species diversity.
- Analyze the effects of species extinction on the health of an ecosystem.