

Newfoundland

Curricular Connections for Plants, People + Climate Change



Lesson # 1 – Plants, Planet, People

Grade 3

Exploring Soils

- **Science**
13.0 Investigate and describe how living things affect and are affected by soils [GCO 1/3]
- **Science**
18.0 Demonstrate and describe ways humans use soils to make useful objects [GCO 1/3]

Plant Growth and Changes

- **Science**
45.0 Identify and describe parts of plants and their general function [GCO 1/3]
- **Science**
46.0 Identify and investigate needs of plants and describe how plants are affected by the conditions in which they grow [GCO 1/3]
- **Science**
48.0 Observe and describe changes that occur through the life cycle of a flowering plant [GCO 1/3]
- **Science**
49.0 Describe ways in which plants are important to living things and the environment [GCO 1/3]
- **Science**
50.0 Identify parts of different plants that provide humans with useful products, and describe the preparation that is required to obtain these products and how our supply of useful plants is replenished [GCO 1/3]
- **Social Studies**
3.2 Explain the factors that affect where people live

Grade 4

- **Science**
43.0 Describe instances where scientific ideas and discoveries have led to new inventions and applications [GCO 1]
- **Science**
68.0 Classify organisms according to their role in a food chain [GCO 3]
- **Science**

70.0 Relate habitat loss to the endangerment or extinction of plants and animals [GCO 3]

- **Social Studies**
7.1 Describe the benefits the physical environment offers humans
- **Social Studies**
7.2 Describe the challenges posed by the physical environment
- **Social Studies**
8.2 Describe the physical regions of Canada in terms of topography, climate, vegetation and resources
- **Social Studies**
9.2 Explain some factors that influence where people live

Lesson # 2 – Plant Needs

Grade 3

Exploring Soils

- **Science**
13.0 Investigate and describe how living things affect and are affected by soils [GCO 1/3]
- **Science**
18.0 Demonstrate and describe ways humans use soils to make useful objects [GCO 1/3]
- **Science**
5.0 Investigate and describe soil components [GCO 1/3]
- **Science**
9.0 Compare the absorption of water by different soils [GCO 1/3]

Plant Growth and Changes

- **Science**
45.0 Identify and describe parts of plants and their general function [GCO 1/3]
- **Science**
46.0 Identify and investigate needs of plants and describe how plants are affected by the conditions in which they grow [GCO 1/3]
- **Science**
48.0 Observe and describe changes that occur through the life cycle of a flowering plant [GCO 1/3]
- **Science**
49.0 Describe ways in which plants are important to living things and the environment [GCO 1/3]
- **Science**
50.0 Identify parts of different plants that provide humans with useful products, and describe the preparation that is required to obtain these products and how our supply of useful plants is replenished [GCO 1/3]
- **Social Studies**
3.2 Explain the factors that affect where people live

Grade 4

- **Science**
43.0 Describe instances where scientific ideas and discoveries have led to new inventions and applications [GCO 1]
- **Social Studies**
7.1 Describe the benefits the physical environment offers humans
- **Social Studies**
7.2 Describe the challenges posed by the physical environment

Lesson # 3 – Plant Adaptations

Grade 3

Exploring Soils

- **Science**
13.0 Investigate and describe how living things affect and are affected by soils [GCO 1/3]

Plant Growth and Changes

- **Science**
46.0 Identify and investigate needs of plants and describe how plants are affected by the conditions in which they grow [GCO 1/3]
- **Science**
48.0 Observe and describe changes that occur through the life cycle of a flowering plant [GCO 1/3]
- **Science**
49.0 Describe ways in which plants are important to living things and the environment [GCO 1/3]
- **Social Studies**
3.2 Explain the factors that affect where people live

Grade 4

- **Science**
70.0 Relate habitat loss to the endangerment or extinction of plants and animals [GCO 3]
- **Social Studies**
7.1 Describe the benefits the physical environment offers humans
- **Social Studies**
7.2 Describe the challenges posed by the physical environment
- **Social Studies**
8.2 Describe the physical regions of Canada in terms of topography, climate, vegetation and resources
- **Social Studies**

9.2 Explain some factors that influence where people live

Lesson #4 – Plants, Us and Climate Change

Grade 3

Exploring Soils

- **Science**

13.0 Investigate and describe how living things affect and are affected by soils [GCO 1/3]

Plant Growth and Changes

- **Science**

46.0 Identify and investigate needs of plants and describe how plants are affected by the conditions in which they grow [GCO 1/3]

- **Science**

49.0 Describe ways in which plants are important to living things and the environment [GCO 1/3]

- **Science**

50.0 Identify parts of different plants that provide humans with useful products, and describe the preparation that is required to obtain these products and how our supply of useful plants is replenished [GCO 1/3]

- **Social Studies**

3.2 Explain the factors that affect where people live

Grade 4

- **Science**

37.0 Contemplate their own and their family's impact on natural resources [GCO 1]

- **Science**

43.0 Describe instances where scientific ideas and discoveries have led to new inventions and applications [GCO 1]

- **Science**

70.0 Relate habitat loss to the endangerment or extinction of plants and animals [GCO 3]

- **Social Studies**

7.1 Describe the benefits the physical environment offers humans

- **Social Studies**

7.2 Describe the challenges posed by the physical environment

- **Social Studies**

7.3 Explain the impact that human activity has on the physical environment

- **Social Studies**

8.2 Describe the physical regions of Canada in terms of topography, climate, vegetation and resources

- **Social Studies**

9.2 Explain some factors that influence where people live

Lesson #5 – Plant Needs and Climate Change

Grade 3

Exploring Soils

- **Science**

13.0 Investigate and describe how living things affect and are affected by soils [GCO 1/3]

Plant Growth and Changes

- **Science**

46.0 Identify and investigate needs of plants and describe how plants are affected by the conditions in which they grow [GCO 1/3]

- **Science**

49.0 Describe ways in which plants are important to living things and the environment [GCO 1/3]

- **Social Studies**

3.2 Explain the factors that affect where people live

Grade 4

- **Science**

36.0 Consider the positive and negative effects of familiar technologies [GCO 1]

- **Science**

37.0 Contemplate their own and their family's impact on natural resources [GCO 1]

70.0 Relate habitat loss to the endangerment or extinction of plants and animals [GCO 3]

- **Social Studies**

7.2 Describe the challenges posed by the physical environment

- **Social Studies**

7.3 Explain the impact that human activity has on the physical environment

- **Social Studies**

8.2 Describe the physical regions of Canada in terms of topography, climate, vegetation and resources

Lesson #6 – Soil and Climate Change

Grade 3

Exploring Soils

- **Science**

13.0 Investigate and describe how living things affect and are affected by soils [GCO 1/3]

- **Science**
18.0 Demonstrate and describe ways humans use soils to make useful objects [GCO 1/3]
- **Science**
3.0 Investigate a variety of soils and find similarities and differences among them [GCO 1/3]
- **Science**
5.0 Investigate and describe soil components [GCO 1/3]
- **Science**
7.0 Describe the effect of moisture on the characteristics of soil [GCO 1/3]
- **Science**
9.0 Compare the absorption of water by different soils [GCO 1/3]

Plant Growth and Changes

- **Science**
46.0 Identify and investigate needs of plants and describe how plants are affected by the conditions in which they grow [GCO 1/3]
- **Science**
49.0 Describe ways in which plants are important to living things and the environment [GCO 1/3]
- **Social Studies**
3.2 Explain the factors that affect where people live

Grade 4

- **Science**
36.0 Consider the positive and negative effects of familiar technologies [GCO 1]
- **Science**
43.0 Describe instances where scientific ideas and discoveries have led to new inventions and applications [GCO 1]
- **Social Studies**
7.1 Describe the benefits the physical environment offers humans
- **Social Studies**
7.2 Describe the challenges posed by the physical environment
- **Social Studies**
8.2 Describe the physical regions of Canada in terms of topography, climate, vegetation and resources

Lesson #7 – Food Waste

Grade 3

Plant Growth and Changes

- **Science**
49.0 Describe ways in which plants are important to living things and the environment [GCO 1/3]
- **Science**

50.0 Identify parts of different plants that provide humans with useful products, and describe the preparation that is required to obtain these products and how our supply of useful plants is replenished [GCO 1/3]

- **Social Studies**

3.2 Explain the factors that affect where people live

Grade 4

- **Science**

36.0 Consider the positive and negative effects of familiar technologies [GCO 1]

- **Science**

37.0 Contemplate their own and their family's impact on natural resources [GCO 1]

- **Science**

43.0 Describe instances where scientific ideas and discoveries have led to new inventions and applications [GCO 1]

- **Social Studies**

7.3 Explain the impact that human activity has on the physical environment

Lesson #8 – Take Action

Grade 3

Exploring Soils

- **Science**

18.0 Demonstrate and describe ways humans use soils to make useful objects [GCO 1/3]

Plant Growth and Changes

- **Science**

49.0 Describe ways in which plants are important to living things and the environment [GCO 1/3]

- **Science**

50.0 Identify parts of different plants that provide humans with useful products, and describe the preparation that is required to obtain these products and how our supply of useful plants is replenished [GCO 1/3]

- **Social Studies**

3.2 Explain the factors that affect where people live

Grade 4

- **Science**

36.0 Consider the positive and negative effects of familiar technologies [GCO 1]

- **Science**

37.0 Contemplate their own and their family's impact on natural resources [GCO 1]

- **Science**

43.0 Describe instances where scientific ideas and discoveries have led to new inventions and applications [GCO 1]

- **Social Studies**
7.1 Describe the benefits the physical environment offers humans
- **Social Studies**
7.2 Describe the challenges posed by the physical environment
- **Social Studies**
7.3 Explain the impact that human activity has on the physical environment

Other Relevant Curricular Connections (English, Art, Math & Health)

Grade 3

Fine Arts

3.3.4 Illustrate and describe how their personal, social, and physical environments can influence their artwork.

5.3.2 Explore relationships between the natural and built environments when viewing and creating art.

Health

All Around Me: My Environment

25.0 Identify environmentally friendly practices used in promoting a healthy and safe environment in the global community

32.0 Understand the influences of the environment, physical and social, on food choices and practices

Grade 4

Fine Arts

14 Identify and discuss the visual effect of the elements and principles of design in the natural and built environments.

7 Develop observation skills and sensitivity to the visual environment

8 Use experiences from their personal, social, and physical environments to create art.

Health

- 1.** Understand that nutrients are needed in specific amounts for growth and development from infancy to old age,
- 2.** Understand that a variety of foods provide adequate amounts of these nutrients
- 4.** Describe how air and water pollution can be controlled and/or reduced
- 5.** Describe a nutritious lunch or snack,
- 5.** Recognize the potential health hazards of air and water contamination,
- 6.** Be able to select party foods or "treats" that are nutritious,
- 7.** Explain the importance of fibre in the diet, and
- 8.** Describe the relationship between nutrition and well-being