

PLANTING FOR CHANGE - CURRICULUM CONNECTIONS

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HIGH SCHOOL

GEOGRAPHY

GR. 9 ISSUES IN CANADIAN GEOGRAPHY

A: Geographic Inquiry and Skill Development

A1.1	A1.2	A1.4	A1.5	A1.6	A2.1	A2.2	A2.3
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B: Interactions in the Physical Environment

B1.1	B1.2	B1.3	B1.4	B1.5	B2.1
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GR. 11 REGIONAL GEOGRAPHY

A: Geographic Inquiry

A1.1	A1.2	A1.4	A1.5	A2.1	A2.2	A2.3	B2.1	E1.2	E3.1	E3.2
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GR. 11 INTRODUCTION TO SPATIAL TECHNOLOGIES

A: Geographic Inquiry

A1.1	A1.2	A1.4	A1.5
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B: Applying Skills in a Local Context

B1.2	B2.1	B2.2	B2.3	B2.4
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C: Using Spatial Technologies to Support Sustainability and Stewardship

C2.1

D: Spatial Technologies, Society and Interdependence

D2.2

SCIENCE

GR 9: SCIENCE

A: Scientific Investigation Skills

A1.1	A1.2	A1.4	A1.5	A1.6	A1.8
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B: Biology: Sustainable Ecosystems

B1.1	B2.1	B2.2
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GR 10: SCIENCE

A: Scientific Investigation Skills

A1.1	A1.2	A1.4	A1.5	A1.6	A1.8
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D: Earth and Space Science: Climate Change

D1.1	D2.1	D2.3	D2.4	D2.8	D3.8
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GR 11: BIOLOGY

B: Diversity of Living Things

B1.2	B3.5
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GR 12: EARTH AND SPACE SCIENCE

A: Scientific Investigation Skills

A1.1	A1.2	A1.6	A1.8
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GR 11: ENVIRONMENTAL SCIENCE

A: Scientific Investigation Skills

A1.1	A1.5	A1.6	A1.8
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B: Environmental Challenges

B2.2	B3.1
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D: Sustainable Agriculture and Forestry

D2.6	D3.2
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ELEMENTARY SCHOOL

MATHEMATICS

GRADE 1:

Measurement

- Estimate, measure, and record lengths, heights and distances
- Estimate, measure, and describe area, through investigation
- Describe through investigation using concrete materials, the relationship between the size of a unit and the number of units needed to measure length

Data Management and Probability

- Collect and organize primary data that is categorical
- Read primary data presented in concrete graphs and pictographs
- Pose and answer questions about collected data

GRADE 2:

Measurement

- Estimate and measure length, height, and distance using standard and non-standard units
- Record and represent measurements of length, height, and distance in a variety of ways
- Select and justify the choice of a standard unit
- Estimate, measure, and record the distance around objects
- Estimate, measure, and record area, through investigation

Data Management and Probability

- Gather data to answer a question
- Collect and organize primary data
- Read primary data presented in a variety of ways
- Pose and answer questions about collected data

-Demonstrate an understanding of data displayed in a graph

GRADE 3:

Measurement

-Estimate, measure, and record length, height, and distance using standard units

-Estimate, measure, and record area

-Compare standard units of length and select and justify the most appropriate standard unit to measure length

Data Management and Probability

-Demonstrate an ability to organize objects into categories by sorting and classifying using two or more attributes

-Collect data by conducting a simple survey about their environment

-Collect and organize categorical or discrete primary data and display the data in charts, tables, and graphs

-Read primary data presented in charts, tables, and graphs

-Interpret and draw conclusions from data presented in charts, tables, and graphs

GRADE 4:

Measurement

-Estimate, measure, and record length, height, and distance, using standard units

-Select and justify the most appropriate standard unit to measure

-Pose and solve meaningful problems that require the ability to distinguish perimeter and area

Data Management and Probability

-Collect data by conducting a survey or an experiment to do with their environment

-Collect and organize discrete primary data and display the data in charts, tables, and graphs

-Read, interpret, and draw conclusions from primary data

-Describe the shape of a set of data across its range of values

-Compare similarities and differences between two related sets of data

GRADE 5:

Measurement

-Solve problems requiring conversion from metres to centimetres and from kilometres to metres

Data Management and Probability

-Collect data by conducting a survey or an experiment

-Collect and organize discrete or continuous primary data and secondary data and display the data in charts, tables, and graphs

-Describe, through investigation, how a set of data is collected

-Read, interpret, and draw conclusions from primary data

-Calculate the mean for a small set of data

-Compare similarities and differences between two related sets of data using a variety of strategies

GRADE 6:

Measurement

-Demonstrate an understanding of the relationship between estimated and precise measurements and determine and justify when each is appropriate

-Estimate, measure, and record length and area using the metric measurement system

-Select and justify the appropriate metric unit

-Solve problems requiring metric conversion

Data Management and Probability

-Collect data by conducting a survey or an experiment to do with their environment

-Collect and organize discrete or continuous primary and secondary data

-Select and appropriate type of graph to represent a set of data, graph the data using technology, and justify the choice of graph

-Determine through investigation how well a set of data represents a population

- Read, interpret, and draw conclusions from primary and secondary data
- Compare, through investigation, different graphical representations of the same data
- Explain how different scales used on graphs can influence conclusions drawn from the data
- Demonstrate an understanding of mean
- Demonstrate, through investigation, an understanding of how data from figures can be used to make inferences and convincing arguments

GRADE 7:

Measurement

- Research and report on real-life applications of area measurements
- Solve problems that require conversion between metric units of measure

Data Management and Probability

- Collect and organize categorical, discrete, or continuous primary and secondary data
- Select an appropriate type of graph to represent a set of data, graph using technology, and justify choice of graph
- Identify bias in data collection methods
- Read, interpret, and draw conclusions from primary and secondary data
- Identify, through investigation, graphs that present data in misleading ways
- Identify and describe trends, based on the distribution of data presented in tables and graphs
- Make inferences and convincing arguments that are based on the analysis of figures

GRADE 8:

Measurement

- Solve problems that require conversions involving metric units of area

Data Management and Probability

- Collect data by conducting a survey or experiment to do with their environment, and record observations and measurements

- Collect and organize categorical, discrete, or continuous primary and secondary data
- Select an appropriate type of graph to represent a set of data, graph using technology, and justify choice of graph
- Read, interpret, and draw conclusions from primary and secondary data
- Demonstrate an understanding of the appropriate uses of bar graphs and histograms by comparison
- Compare two attributes or characteristics using a scatter plot, and determine whether the plot suggests a relationship
- Identify and describe trends, based on the rate of change of data from tables and graphs
- Make inferences and convincing arguments based on the analysis of figures
- Compare two attributes or characteristics using a variety of data management tools and strategies

SCIENCE AND TECHNOLOGY

GRADE 1:

Understanding Life Systems

1: Relating Science and Technology to Society and the Environment

1.1	1.2
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2: Developing Investigation and Communication Skills

2.1	2.2	2.4	2.6
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3: Understanding Basic Concepts

3.1	3.2	3.4	3.5	3.6	3.7
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4: Understanding Matter and Energy

2.5	2.6	2.7	3.2
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5: Understanding Earth and Space Systems

1.2	2.1	2.5	3.1	3.5
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GRADE 2:

1: Understanding Life Systems

2.1

2: Understanding Earth and Space Systems

1.1	2.1	2.2	2.3	2.4	3.3	3.4
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GRADE 3:

1: Understanding Life Systems

1.1	1.2	2.1	2.2	2.4	2.5	2.6	3.1	3.2	3.3	3.4	3.6	3.8
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2: Understanding Earth and Space Systems

1.1	1.2	2.1	2.2	2.3	3.3
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GRADE 4:

1: Understanding Life Systems

1.1	1.2	2.1	2.3	3.1	3.3	3.7	3.8	3.9	3.10
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GRADE 5:

1: Understanding Matter and Energy

2.1	2.2	2.3
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2: Understanding Earth and Space Systems

1.1	2.1	2.2	3.3
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GRADE 6:

1: Understanding Life Systems

1.1	1.2	2.1	2.2	2.3	3.1	3.2	3.4
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GRADE 7:

1: Understanding Life Systems

1.1	2.1	2.2	3.1	3.2	3.6	3.8
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2: Understanding Earth and Space Systems

2.1	3.7	3.8
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GRADE 8:

1: Understanding Earth and Space Systems

2.1	3.3	3.4	3.5
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SOCIAL STUDIES (INCLUDING HISTORY AND GEOGRAPHY IN GR 7/8)

GRADE 1:

B: People and Environments: The Local Community

B1.1	B2.1	B2.2	B2.3	B2.4	B2.5	B3.1	B3.5
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Grade 2: No major connections

Grade 3: No major connections

GRADE 4:

B: People and Environments: Political and Physical Regions of Canada

B2.5	B3.7
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Grade 5: No major connections

GRADE 6:

B: People and Environments: Canada's Interactions with the Global Community

B1.3	B2.1	B2.2	B2.4	B2.5
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GEOGRAPHY – GRADES 7/8

GRADE 7:

A: Interrelationships between People and the Physical Environment

A1.3	A2.1	A2.2	A2.4	A2.5	A3.5	A3.7
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Grade 8: no major connections