

A Correlation of
Population Connection Materials

from

Sharing a Small World:
Environmental Activities for Young Learners

to

Minnesota Academic Standards

Organized by:

1. Grade

2. Subject

3. Standard

4. Population Connection Activity

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Kindergarten

Language Arts

I. Reading And Literature

B. Vocabulary Expansion:

The student will use a variety of strategies to develop and expand reading, listening and speaking vocabularies.

1. Use words to describe and name people, places, and things.

Earth Cookie
Lend a Hand to the Earth
Our Town
Web of Life
Who Polluted the River?

3. Use words to describe actions.

The Bare Necessities
Creatures in Motion
Crowding Can Be Seedy
Earth Cookie
Go Fish!
Lend a Hand to the Earth
Our Town
Web of Life
Who Polluted the River?

4. Use context to predict and infer word meanings.

Web of Life
Who Polluted the River?
Sharing a Small World

5. Learn new words through explicit instruction.

The Bare Necessities
Creatures in Motion
Crowding Can Be Seedy
Earth Cookie
Go Fish!
Lend a Hand to the Earth
Our Town
Web of Life
Who Polluted the River?

C. Comprehension:

The student will listen to and understand the meaning of text.

2. Make predictions from illustrations and story content.

Web of Life
Who Polluted the River?

III. Speaking, Listening And Viewing

A. Speaking and Listening:

The student will communicate effectively through listening and speaking.

2. Follow two-step directions.

The Bare Necessities

Creatures in Motion
Crowding Can Be Seedy
Earth Cookie
Go Fish!
Our Town
Web of Life
Who Polluted the River?

4. Communicate needs, feelings and ideas to peers and adults.

The Bare Necessities
Creatures in Motion
Crowding Can Be Seedy
Go Fish!
Our Town

5. Recite and respond to poems, rhymes and songs.

The Bare Necessities
Crowding Can Be Seedy

8. Ask and respond to questions.

The Bare Necessities
Creatures in Motion
Crowding Can Be Seedy
Earth Cookie
Go Fish!
Our Town
Lend a Hand to the Earth
Web of Life
Who Polluted the River?

Mathematics

II. Number Sense, Computation, And Operations

A. Number Sense:

Represent quantities using whole numbers and understand relationships among whole numbers.

2. Count the number of objects in a set and identify the quantity.

Creatures in Motion
Crowding Can Be Seedy
Go Fish!

3. Compare the number of objects in two or more sets.

Crowding Can Be Seedy

Science

I. History And Nature Of Science

B. Scientific Inquiry:

The student will raise questions about the natural world.

1. The student will observe and describe common objects using simple tools.

Creatures in Motion
Earth Cookie
Go Fish!
Web of Life
Who Polluted the River?

IV. Life Science

G. Human Organism:

The student will understand that people have five senses that can be used to learn about the environment.

1. The student will observe and describe the environment using the five senses.

 Creatures in Motion

 Crowding Can Be Seedy

 Earth Cookie

 Web of Life

 Who Polluted the River?

Kindergarten to Grade 3

Social Studies

I. U.S. History

A. Family Life Today and In The Past:

The student will understand how families live today and in earlier times, recognizing that some aspects change over time while others stay the same.

1. Students will compare family life in his or her community from earlier times and today.

The Bare Necessities

Our Town

3. Students will compare technologies from earlier times and today, and identify the impact of invention on historical change.

Who Polluted the River?

C. Many Peoples and Cultures Meet in the Making of North America:

The student will demonstrate knowledge of the people who settled in North America.

2. Students will demonstrate knowledge of European exploration and settlement of the North American continent and the resulting interaction with American Indian nations.

Who Polluted the River?

III. World History

A. Family Life Today and in the Past:

The student will understand how families live today and in earlier times, recognizing that some aspects change over time while others stay the same.

1. Students will compare family life in their own communities from earlier times and today.

The Bare Necessities

Our Town

3. Students will compare technologies from earlier times and today, and identify the impact of invention on historical change.

Who Polluted the River?

IV. Historical Skills

A. Concepts of Time:

The student will demonstrate chronological thinking.

1. Students will define and use terms for concepts of historical time.

Our Town

Who Polluted the River?

V. Geography

A. Concepts of Location:

The student will use directional and positional words to locate and describe people, places and things.

1. Students will describe the location of people, places and things by using positional words.

Our Town

2. Students will use maps and globes to locate places referenced in stories and real life situations.

Earth Cookie

Our Town

4. Students will name and use directional words to describe locations of places in the school and community. Students will locate places by using simple maps, and understand that maps are drawings of locations and places as viewed from above.

Our Town

6. Students will compare distances between two or more places shown on a map with simple terms, such as farther and closer.

Our Town

B. Maps and Globes:

The student will use and create maps and globes to locate people, places and things.

1. Students will locate places by using simple maps, and understand that maps are drawings of locations and places as viewed from above.

Our Town

3. Students will create and interpret simple maps using the map elements of title, direction, symbols, and a map key or legend.

Our Town

VI. Economics

A. Economic Choices:

The student will understand that economic choices are necessary in life.

1. Students will identify the difference between basic needs (food, clothing, and shelter) and wants (things people would like to have).

The Bare Necessities

3. Students will understand and explain that the concept of scarcity means that one cannot have all the goods and services that one wants.

Creatures in Motion

Crowding Can Be Seedy

Earth Cookie

Go Fish!

Our Town

Sharing a Small World

4. Students will give examples of tradeoffs (opportunity costs).

Creatures in Motion

Go Fish!

Our Town

B. Producers and Consumers:

The student will understand the relationship between producers and consumers in regard to goods and services.

1. Students will distinguish between producers and consumers and between goods and services.

Earth Cookie

2. Students will recognize and explain that natural resources, human resources, and human-made resources are used in the production of goods and services.

Earth Cookie

Our Town

VII. Government And Citizenship

A. Civic Values, Skills, Rights and Responsibilities:

The student will understand the importance of participation in civic life and demonstrate effective civic skills.

1. Students will explain the importance of participation and cooperation in a classroom and community and explain how people can make a difference in others' lives.

Creatures in Motion

Crowding Can Be Seedy

Go Fish!

Lend a Hand to the Earth

Web of Life

Sharing a Small World

B. Beliefs and Principles of United States Democracy:

The student will understand the role of government, rules, and law and why we have them.

1. Students will give examples of rules in the classroom/school and community, provide reasons for the specific rules, and know the characteristics of good rules.

Go Fish!

2. Students will explain that rules and laws apply to everyone and describe consequences for breaking the rules or laws.

Go Fish!

Grade 1

Language Arts

I. Reading And Literature

B. Vocabulary Expansion:

The student will use a variety of strategies to develop and expand reading, listening and speaking vocabularies.

4. Use context to predict and infer word meanings.

Web of Life

Who Polluted the River?

III. Speaking, Listening And Viewing

A. Speaking and Listening:

The student will communicate effectively through listening and speaking.

2. Follow two- or three-step oral directions.

The Bare Necessities

Creatures in Motion

Crowding Can Be Seedy

Earth Cookie

Go Fish!

Lend a Hand to the Earth

Our Town

Web of Life

Who Polluted the River?

5. Recite and respond to stories, poems, rhymes and songs with expression.

The Bare Necessities

Crowding Can Be Seedy

7. Ask and respond to questions.

The Bare Necessities

Creatures in Motion

Crowding Can Be Seedy

Earth Cookie

Go Fish!

Lend a Hand to the Earth

Our Town

Web of Life

Who Polluted the River?

Mathematics

II. Number Sense, Computation, And Operations

A. Number Sense:

Understand place value, ways of representing whole numbers and relationships among whole numbers.

Understand the concept of unit fractions.

5. Recognize, name, compare and represent unit fractions with drawings or concrete materials.

Earth Cookie

IV. Data Analysis, Statistics And Probability

A. Data and Statistics:

Collect and represent data in real-world and mathematical problems.

2. Create pictographs and real-object graphs to represent data.
Earth Cookie

Science

I. History And Nature Of Science

B. Scientific Inquiry:

The student will raise questions about the natural world, make careful observations, and seek answers.

1. The student will observe, describe, measure, compare and contrast common objects, using simple tools including but not limited to ruler, thermometer and balance.

Creatures in Motion

Earth Cookie

Who Polluted the River?

II. Physical Science

A. Structure of Matter:

The student will understand that objects have physical properties.

1. The student will describe objects in terms of color, size, shape, weight, texture, flexibility and attraction to magnets.

Creatures in Motion

Crowding Can Be Seedy

Earth Cookie

Web of Life

Who Polluted the River?

IV. Life Science

B. Organisms:

The student will observe plant and animal life cycles.

1. The student will observe and describe how plants and animals grow and change.

Crowding Can Be Seedy

F. Flow of Matter and Energy:

The student will understand that organisms have basic needs.

1. The student will know that animals need air, water and food and that plants require air, water, nutrients and light.

Crowding Can Be Seedy

Web of Life

Sharing a Small World

Grade 2

Language Arts

III. Speaking, Listening And Viewing

A. Speaking and Listening:

The student will demonstrate understanding and communicate effectively through listening and speaking.

2. Comprehend text or information presented orally.

Web of Life

Who Polluted the River?

Sharing a Small World

3. Follow two- or three-step oral directions.

The Bare Necessities

Creatures in Motion

Crowding Can Be Seedy

Earth Cookie

Go Fish!

Lend a Hand to the Earth

Our Town

Web of Life

Who Polluted the River?

6. Recite and respond to stories, poems, rhymes and songs with expression.

The Bare Necessities

Crowding Can Be Seedy

8. Ask and respond to questions.

The Bare Necessities

Creatures in Motion

Crowding Can Be Seedy

Earth Cookie

Go Fish!

Our Town

Lend a Hand to the Earth

Web of Life

Who Polluted the River?

Science

I. History And Nature Of Science

A. Scientific World View:

The student will understand that science is a human endeavor practiced throughout the world.

3. The student will give examples of scientific advances throughout history.

Who Polluted the River?

B. Scientific Inquiry:

The student will raise questions about the natural world, make careful observations and seek answers.

1. The student will use appropriate tools to gather and organize data.

Crowding Can Be Seedy

Earth Cookie

IV. Life Science

G. Human Organism:

The student will recognize that people have basic needs.

1. The student will know that people need water, food, air, waste removal and a particular range of temperature in their environment, just like other animals.

Crowding Can Be Seedy

Web of Life

Grade 3

Language Arts

III. Speaking, Listening And Viewing

A. Speaking and Listening:

The student will demonstrate understanding and communicate effectively through listening and speaking.

2. Demonstrate active listening and comprehension.

Earth Cookie

Mathematics

I. Mathematical Reasoning

Apply skills of mathematical representation, communication and reasoning throughout the remaining four content strands.

1. Communicate, reason and represent situations mathematically.

Earth Cookie

Go Fish!

II. Number Sense, Computation, And Operations

A. Number Sense:

Represent whole numbers in various ways to quantify information and to solve real-world and mathematical problems. Understand the concept of decimals and common fractions.

4. Represent and write fractions with pictures, models and numbers.

Earth Cookie

IV. Data Analysis, Statistics And Probability

A. Data and Statistics:

Represent and interpret data in real-world and mathematical problems.

1. Read and interpret data from circle graphs using halves, thirds and quarters.

Earth Cookie

B. Probability:

Explore the basic concept of probability.

Earth Cookie

Science

I. History And Nature Of Science

A. Scientific World View:

The student will understand the use of science as a tool to examine the natural world.

1. The student will explore the use of science as a tool that can help investigate and answer questions about the environment.

Crowding Can Be Seedy

Earth Cookie

Web of Life

Who Polluted the River?

B. Scientific Inquiry:

The student will understand the nature of scientific investigations.

1. The student will ask questions about the natural world that can be investigated scientifically.
Crowding Can Be Seedy
Earth Cookie

IV. Life Science

C. Interdependence of Life:

The student will understand that an organism's patterns of behavior are related to the nature of its environment.

1. The student will know that organisms interact with one another in various ways besides providing food.
Web of Life
2. The student will know that changes in a habitat can be beneficial or harmful to an organism.
Web of Life

Grade 4

Language Arts

III. Speaking, Listening And Viewing

A. Speaking and Listening:

The student will demonstrate understanding and communicate effectively through listening and speaking.

2. Demonstrate active listening and comprehension.

Earth Cookie

Mathematics

I. Mathematical Reasoning

Apply skills of mathematical representation, communication and reasoning throughout the remaining four content strands.

1. Communicate, reason and represent situations mathematically.

Earth Cookie

6. Support mathematical results using pictures, numbers and words to explain why the steps in a solution are valid and why a particular solution method is appropriate.

Earth Cookie

III. Patterns, Functions, And Algebra

A. Patterns and Functions:

Understand and describe patterns in tables and graphs.

1. Examine and describe patterns in tables and graphs.

Earth Cookie

Science

I. History And Nature Of Science

A. Scientific World View:

The student will understand how science is used to investigate interactions between people and the natural world.

1. The student will explore the uses and effects of science in our interaction with the natural world.

Crowding Can Be Seedy

Earth Cookie

2. The student will discuss the responsible use of science.

Crowding Can Be Seedy

B. Scientific Inquiry:

The student will participate in a controlled scientific investigation.

2. The student will collect, organize, analyze and present data from a controlled experiment.

Crowding Can Be Seedy

Earth Cookie

III. Earth And Space Science

A. Earth Structure and Processes:

The student will investigate the impact humans have on the environment.

1. The student will identify and investigate environmental issues and potential solutions.

Crowding Can Be Seedy

Earth Cookie

Grade 4 to Grade 8

Social Studies

V. Geography

D. Interconnections:

The student will identify examples of the changing relationships between patterns of settlement, land use and topographic features in the United States.

2. Students will analyze how changes in transportation affected settlement of the country.

Our Town

D. Interconnections:

The student will demonstrate how various regional frameworks are used to analyze the variation in culture and human occupation of the Earth's surface.

1. Students will explain the patterns of population density on the surface of the Earth and analyze the causes of population change.

Our Town

VII. Government And Citizenship

A. Civic Values, Skills, Rights and Responsibilities:

The student will articulate the range of rights and responsibilities in a republic

2. Students will explain some of the responsibilities of people living in a democracy.

Our Town

A. Civic Values, Skills, Rights and Responsibilities:

The student will understand the importance of participation in civic life and demonstrate effective civic skills

2. Students will explain the meaning of civic life and how all members of a community can be engaged.

Our Town

Grade 5

Language Arts

III. Speaking, Listening And Viewing

A. Speaking and Listening:

The student will demonstrate understanding and communicate effectively through listening and speaking.

2. Demonstrate active listening and comprehension.

Earth Cookie

Mathematics

I. Mathematical Reasoning

Apply skills of mathematical representation, communication and reasoning throughout the remaining four content strands.

1. Communicate, reason and represent situations mathematically.

Earth Cookie

6. Support mathematical results using pictures, numbers, and words to explain why the steps in a solution are valid and why a particular solution method is appropriate.

Earth Cookie

7. Organize, record and communicate math ideas coherently and clearly.

Earth Cookie

IV. Data Analysis, Statistics And Probability

A. Data and Statistics:

Represent data and use various measures associated with data to draw conclusions and identify trends.

2. Use fractions and percentages to compare data sets.

Earth Cookie

3. Collect data using measurements, surveys or experiments and represent the data with tables and graphs with labeling.

Earth Cookie

Science

I. History And Nature Of Science

B. Scientific Inquiry:

The student will understand the process of scientific investigations.

1. The student will perform a controlled experiment using a specific step-by-step procedure and present conclusions supported by the evidence.

Crowding Can Be Seedy