



Academic Standards

3rd Grade Standards

Module 1: Why is the Environment Important?

Unit A: What is an environment?

English/ Language Arts

Reading: Comprehension and Analysis of Nonfiction and Informational Text- Structural Features of Informational and Technical Materials

3.2.1 Use titles, tables of contents, chapter headings, a glossary, or an index to locate information in text.

Reading: Comprehension and Analysis of Nonfiction and Informational Text- Analysis of Grade-Level-Appropriate Nonfiction and Informational Text

3.2.6 Locate appropriate and significant information from the text, including problems and solutions.

Writing: Processes and Features- Research Process and Technology

3.4.4 Use various reference materials (such as a dictionary, thesaurus, atlas, encyclopedia, and online resources).

Science

Standard 2: Earth Science

3.2.5 Describe natural materials and give examples of how they sustain the lives of plants and animals.

3.2.6 Describe how the properties of earth materials make them useful to humans in different ways. Describe ways that humans have altered these resources to meet their needs for survival.

Unit B: Who needs the environment?

Math

Number Sense

3.1.1 Count, read, and write whole numbers up to 1,000

Computation

3.2.1 Add and subtract whole numbers up to 1,000 with or without regrouping, using relevant properties of the number system.


Measurement

3.5.7 Estimate and measure weight using pounds and kilograms.

Science

Standard 2: Earth Science

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Standard 4: Science, Engineering and Technology

3.4.1 Choose and use the appropriate tools to estimate and measure length, mass and temperature in SI units.

Unit C: What makes a good environment?

Science

Standard 2: Earth Science

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Unit D: What does Indiana's environment look like?

Science

Standard 2: Earth Science

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Module 2: Learning more about Indiana's Environment and You

Unit A: Air

Science

Standard 2: Earth Science

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1. At Home

Science

Standard 2: Earth Science

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2. At School

Science

Standard 2: Earth Science

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3. At Work

Social Studies

Geography- The World in Spatial Terms

- 3.3.1 Use labels and symbols to locate and identify physical and political features on maps and globes. Label a map of the Midwest, identifying states, major rivers, lakes and the Great Lakes.
- 3.3.2 Locate Indiana and other Midwestern states on maps using simple grid systems.
- 3.3.3 Identify the northern, southern, eastern and western hemispheres; cardinal and intermediate directions; and determine the direction and distance from one place to another.

Unit B: Land

Science

Standard 2: Earth Science

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1. At Home

Science

Standard 2: Earth Science

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Standard 4: Science, Engineering and Technology

- 3.4.1 Choose and use the appropriate tools to estimate and measure length, mass and temperature in SI units.

2. At School

Science

Standard 2: Earth Science

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3. At Work

Science

Standard 2: Earth Science

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Standard 4: Science, Engineering and Technology

- 3.4.1 Choose and use the appropriate tools to estimate and measure length, mass and temperature in SI units.
- 3.4.2 Define the uses and types of simple machines and utilize simple machines in the solution to a “real world” problem.



Unit C: Water

Science

Standard 2: Earth Science

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1. At Home

Science

Standard 2: Earth Science

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Module 3: Environmental Stewardship and You

Unit A: How can you help Indiana's Environment?

Science

Standard 2: Earth Science

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2. In Your Community

English/Language Arts

The Nature of Science and Technology- Scientific Inquiry

3.1.2 Read words with several syllables.

Math

Measurement

3.5.6 Estimate and measure capacity using quarts, gallons, and liters.



4th Grade Standards

Module 1: Why is the Environment Important?

Unit A: What is an environment?

English/ Language Arts

Writing: Processes and Features- Research Process and Technology

4.4.6 Locate information in reference texts by using organizational features, such as prefaces and appendixes.

Science

Standard 2: Earth Science

4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.

4.2.5 Describe methods that humans currently use to extend the use of natural resources.

Unit B: Who needs the environment?

Math

Number Sense

4.1.1 Read and write whole numbers up to 1,000,000.

Data Analysis and Probability

4.6.1 Represent data on a number line and in tables, including frequency tables.

4.6.2 Interpret data graphs to answer questions about a situation.

Science

Standard 2: Earth Science

4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.

4.2.5 Describe methods that humans currently use to extend the use of natural resources.

4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.

Unit C: What makes a good environment?

Science

Standard 2: Earth Science

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Unit D: What does Indiana's environment look like?

Science

Standard 2: Earth Science

4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.



- 4.2.5 Describe methods that humans currently use to extend the use of natural resources.
- 4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.

Module 2:

Learning more about Indiana's Environment and You

Unit A: Air

Science

Standard 2: Earth Science

- 4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.
- 4.2.5 Describe methods that humans currently use to extend the use of natural resources.
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1. At Home

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2. At School

Science

Standard 2: Earth Science

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3. At Work

Social Studies

Geography- Places and Region

- 4.3.3 Locate Indiana on a map as one of the 50 United States. Identify and describe the location of the state capital, major cities and rivers in Indiana; and place these on a blank map of the state.



Economics

4.4.5 Describe Indiana's emerging global connections.

Science

Standard 2: Earth Science

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4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.

Unit B: Land

Science

Standard 1: Physical Science

4.1.1 Describe and investigate the different ways in which heat can be generated.

Standard 2: Earth Science

4.2.1 Demonstrate and describe how smaller rocks come from the breakage and weathering of larger rocks in a process that occurs over a long period of time.

1. At Home

Science

Standard 1: Physical Science

4.1.1 Describe and investigate the different ways in which heat can be generated.

Standard 2: Earth Science

4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.

4.2.5 Describe methods that humans currently use to extend the use of natural resources.

4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.

Standard 3: Life Science

4.3.4 Describe a way that a given plant or animal might adapt to a change arising from a human or non-human impact on its environment.

2. At School

Science

Standard 2: Earth Science

4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.

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3. At Work

Math

Data Analysis and Probability

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Science

Standard 2: Earth Science

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- 4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.

Unit C: Water

Science

Standard 1: Physical Science

- 4.1.1 Describe and investigate the different ways in which heat can be generated.
- 4.1.2 Investigate the variety of ways in which heat can be generated and moved from one place to another. Explain the direction the heat moved.

Standard 2: Earth Science

- 4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.
- 4.2.5 Describe methods that humans currently use to extend the use of natural resources.
- 4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.

Social Studies

Geography- Physical Systems

- 4.3.6 Describe Indiana's landform (lithosphere*), water features (hydrosphere*), and plants and animals (biosphere*).

1. At Home

Science

Standard 2: Earth Science

- 4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.
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- 4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.

2. At School

Social Studies

Geography- Physical Systems

- 4.3.6 Describe Indiana's landforms (lithosphere*), water features (hydrosphere*), and plants and animals (biosphere*).

Science

Standard 2: Earth Science

- 4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.
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3. At Work

Science

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Standard 2: Earth Science

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Module 3: Environmental Stewardship and You

Unit A: How can you help Indiana's Environment?

1. At Home

Math

Data Analysis and Probability

4.6.2 Interpret data graphs to answer questions about a situation.

Science

Standard 1: Physical Science

4.1.1 Describe and investigate the different ways in which heat can be generated.

Standard 2: Earth Science

4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.

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4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.

2. In Your Community

Social Studies

Civics and Government- Roles of Citizens

4.2.6 Define and provide examples of civic virtues* in a democracy.

Science

Standard 2: Earth Science

4.2.4 Investigate earth materials that serve as natural resources and gather data to determine which ones are limited by supply.

4.2.5 Describe methods that humans currently use to extend the use of natural resources.

4.2.6 Describe ways in which humans have changed the natural environment. Explain if these changes have been detrimental or beneficial.



5th Grade Standards:

Module 1: Why is the Environment Important?

Unit A: What is an environment?

English/ Language Arts

Reading: Comprehension and Analysis of Nonfiction and Informational Text- Structural Features of Informational and Technical Materials

- 5.2.1 Use the features of informational texts, such as formats, graphics, diagrams, illustrations, charts, maps, and organization, to find information and support understanding.

Unit B: Who needs the environment?

Math

Computations

- 5.2.1 Solve problems involving multiplication and division of any whole numbers.

- 5.6.2 Find the mean*, median*, mode*, and range* of a set of data and describe what each does and does not tell about the data set.

Science

Standard 1: Physical Science

- 5.1.1 Describe and measure the volume and weight of a sample of a given material.

Module 2: Learning more about Indiana's Environment and You

Unit B: Land

Science

Standard 1: Physical Science

- 5.1.1 Describe and measure the volume and weight of a sample of a given material.

1. At Home

Science

Standard 1: Physical Science

- 5.1.1 Describe and measure the volume and weight of a sample of a given material.

Standard 3: Life Science

- 5.3.1 Observe and classify common Indiana organisms as producers, consumers, decomposers, predator and prey based on their relationships and interactions with other organisms in their ecosystem.

- 5.3.2 Investigate the action of different decomposers and compare their role in an ecosystem with that of producers and consumers.



2. At School

Science

Standard 1: Physical Science

5.1.1 Describe and measure the volume and weight of a sample of a given material.

3. At Work

Science

Standard 1: Physical Science

5.1.1 Describe and measure the volume and weight of a sample of a given material.

Unit C: Water

Science

Standard 1: Physical Science

5.1.1 Describe and measure the volume and weight of a sample of a given material.

Module 3: Environmental Stewardship and You

Unit A: How can you help Indiana's Environment?

1. At Home

Math

Algebra and Functions

5.3.4 Identify and graph ordered pairs of positive numbers.

5.3.7 Use information taken from a graph or equation to answer questions about a problem situation.

Science

Standard 1: Physical Science

5.1.1 Describe and measure the volume and weight of a sample of a given material.

Standard 3: Life Science

5.3.1 Observe and classify common Indiana organisms as producers, consumers, decomposers, predator and prey based on their relationships and interactions with other organisms in their ecosystem.

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