

Indiana Academic Standards That Match Population Connection Activities

Grades K - 5

1. English/Language Arts:

a. *Kindergarten*

Standard 1: Reading: Word Recognition, Fluency, and Vocabulary Development

K.1.10 Say rhyming words in response to an oral prompt.

K.1.12 Listen to spoken sentences and recognize individual words in the sentence; listen to words and recognize individual sounds in the words.

K.1.18 Understand the alphabetic principle, which means that as letters in words change, so do the sounds.

K.1.20 Identify and sort common words in basic categories.

K.1.22 Listen to stories read aloud and use the vocabulary in those stories in oral language.

Standard 2: Reading: Comprehension and Analysis of Nonfiction and Informational Text

K.2.2 Use pictures and context to aid comprehension and to draw conclusions or make predictions about story content.

K.2.3 Generate and respond to questions (who, what, where).

Standard 3: Reading: Comprehension and Analysis of Literary Text

K.3.3 Identify characters, settings, and important events in a story.

K.3.5 Understand what is heard or seen by responding to questions (who, what, where).

Standard 4: Writing: Processes and Features

K.4.1 Discuss ideas to include in a story.

K.4.6 Ask how and why questions about a topic of interest.

K.4.7 Identify pictures and charts as sources of information and begin gathering information from a variety of sources (books, technology).

K.4.8 Organize and classify information into categories of how and why or by color or size.

Standard 7: Listening and Speaking: Skills, Strategies, and Applications

K.7.1 Understand and follow one- and two-step spoken directions.

K.7.2 Share information and ideas, speaking in complete, coherent sentences

K.7.3 Describe people, places, things (including their size, color, and shape), locations, and actions.

K.7.5 Tell an experience or creative story in a logical sequence (chronological order, first, second, last).

b. *Grade 1*

Standard 7: Listening and Speaking: Skills, Strategies, and Applications

1.7.1 Listen attentively.

1.7.5 Use descriptive words when speaking about people, places, things, and events.

1.7.7 Retell stories using basic story grammar and relating the sequence of story events by answering who, what, when, where, why, and how questions.

1.7.8 Relate an important life event or personal experience in a simple sequence.

1.7.9 Provide descriptions with careful attention to sensory detail.

1.7.10 Use visual aids, such as pictures and objects, to present oral information.

c. *Grade 2*

Standard 2: Reading: Comprehension and Analysis of Nonfiction and Informational Text

2.2.6 Recognize cause-and-effect relationships in a text.

2.2.7 Interpret information from diagrams, charts, and graphs.

Standard 7: Listening and Speaking: Skills, Strategies, and Applications

2.7.4 Give and follow three- and four-step oral directions.

2.7.6 Speak clearly and at an appropriate pace for the type of communication (such as an informal discussion or a report to class).

2.7.11 Report on a topic with facts and details, drawing from several sources of information

d. *Grade 3*

Standard 1: Reading: Word Recognition, Fluency, and Vocabulary Development

3.1.5 Demonstrate knowledge of grade-level-appropriate words to speak specifically about different issues.

Standard 5: Writing: Applications (Different Types of Writing and Their Characteristics)

3.5.5 Write for different purposes and to a specific audience or person.

Standard 7: Listening and Speaking: Skills, Strategies, and Applications

3.7.2 Connect and relate experiences and ideas to those of a speaker.

e. *Grade 4*

Standard 4: Writing: Processes and Features

4.4.1 Discuss ideas for writing. Find ideas for writing in conversations with others and in books, magazines, newspapers, school textbooks, or on the Internet. Keep a list or notebook of ideas.

4.4.4 Use logical organizational structures for providing information in writing, such as chronological order, cause and effect, similarity and difference, and posing and answering a question.

Standard 7: Listening and Speaking: Skills, Strategies, and Applications

4.7.1 Ask thoughtful questions and respond orally to relevant questions with appropriate elaboration.

4.7.5 Present effective introductions and conclusions that guide and inform the listener's understanding of important ideas and details.

4.7.6 Use logical structures for conveying information, including cause and effect, similarity and difference, and posing and answering a question.

4.7.7 Emphasize points in ways that help the listener or viewer follow important ideas and concepts.

4.7.15 Connect and relate experiences and ideas to those of a speaker.

4.7.16 Distinguish between the speaker's opinions and verifiable facts

f. *Grade 5*

Standard 4: Writing: Processes and Features

5.4.1 Discuss ideas for writing, keep a list or notebook of ideas, and use graphic organizers to plan writing.

Standard 7: Listening and Speaking: Skills, Strategies, and Applications

5.7.1 Ask questions that seek information not already discussed.

5.7.2 Interpret a speaker's verbal and nonverbal messages, purposes, and perspectives.

5.7.3 Make inferences or draw conclusions based on an oral report.

5.7.5 Clarify and support spoken ideas with evidence and examples.

5.7.10 Deliver informative presentations about an important idea, issue, or event by the following means: frame questions to direct the investigation, establish a controlling idea or topic, develop the topic with simple facts, details, examples, and explanations.

5.7.12 Give precise directions and instructions.

5.7.13 Emphasize points in ways that help the listener or viewer follow important ideas and concepts.

2. Social Studies

a. Kindergarten

Standard 2: Civics and Government

K.2.4 Give examples of how to be a responsible family member and member of a group.

Standard 3: Geography

K.3.3 Locate and describe places in the school and community.

K.3.7 Recommend ways that people can improve their environment at home, in school and in the neighborhood.

b. Grade 1

Standard 2: Civics and Government

1.2.4 Describe ways that individual actions can contribute to the common good of the community.

Standard 3: Geography

1.3.9 Give examples of natural resources found locally and describe how people in the school and community use these resources.

Standard 4: Economics

1.4.5 Explain that people have to make choices about goods and services because of scarcity. Scarcity: the idea that resources are limited in relation to people's wants

c. Grade 2

Standard 3: Geography:

2.3.3 Compare neighborhoods in your community and explain how physical features of the community affect people living there.

Standard 4: Economics

2.4.1 Define the three types of productive resources (human resources, natural resources and capital resources) and identify productive resources used to produce goods and services in the community.

d. Grade 3

Standard 3: Geography

3.3.7 Physical Systems: Describe how climate and the physical characteristics of a region affect the vegetation and animal life living there.

3.3.10 Use a variety of information resources to identify regional environmental issues and examine the ways that people have tried to solve these problems.

Information resources: print media, such as books, magazines and newspapers; electronic media, such as

radio, television, Web sites and databases; and community resources, such as individuals and organizations

3.3.11 Identify and describe the relationship between human systems and physical systems and the impact they have on each other.

e. Grade 4

Standard 4: Geography

4.3.4 Places and Regions : Map and describe the physical regions of Indiana and identify major natural resources and crop regions.

f. Grade 5

Standard 3: Geography

5.3.7 Identify major sources of accessible fresh water and describe the impact of access on local and regional communities.

3. Science

a. Kindergarten

Standard 3: The Physical Setting

K.3.2 Investigate that things move in different ways, such as fast, slow, etc.

b. Grade 1

Standard 1: The Nature of Science and Technology

1.1.2 Investigate and make observations to seek answers to questions about the world, such as “In what ways do animals move?”

Standard 2: Scientific Thinking

1.2.1 Use whole numbers, up to 100, in counting, identifying, measuring, and describing objects and experiences.

1.2.7 Write brief informational descriptions of a real object, person, place, or event using information from observations.

Standard 3: The Physical Setting

1.3.3 Investigate by observing and also measuring that the sun warms the land, air, and water.

1.3.4 Investigate by observing and then describe how things move in many different ways, such as straight, zigzag, round-and-round, and back-and-forth.

c. Grade 2

Standard 1: The Nature of Science and Technology

2.1.3 Describe, both in writing and verbally, objects as accurately as possible and compare observations with those of other people.

2.1.7 Recognize and describe ways that some materials — such as recycled paper, cans, and plastic jugs — can be used over again.

Standard 4: The Living Environment

2.4.1 Observe and identify different external features of plants and animals and describe how these features help them live in different environments.

d. **Grade 3**

Standard 1: The Nature of Science and Technology

3.1.4 Discuss the results of investigations and consider the explanations of others.

3.1.6 Give examples of how tools, such as automobiles, computers, and electric motors, have affected the way we live.

3.1.8 Describe how discarded products contribute to the problem of waste disposal and that recycling can help solve this problem.

e. **Grade 4**

Standard 2: Scientific Thinking

4.2.4 Use numerical data to describe and compare objects and events.

Standard 4: The Living Environment

4.4.3 Observe and describe that organisms interact with one another in various ways, such as providing food, pollination, and seed dispersal.

f. **Grade 5**

Standard 1: The Nature of Science and Technology

5.1.6 Explain how the solution to one problem, such as the use of pesticides in agriculture or the use of dumps for waste disposal, may create other problems.

Standard 2: Scientific Thinking

5.2.1 Multiply and divide whole numbers mentally, on paper, and with a calculator.

Standard 4: The Living Environment

5.4.5 Explain how changes in an organism's habitat are sometimes beneficial and sometimes harmful. (Core Standard)

4. Math

a. **Kindergarten**

Standard 1: Number Sense

K.1.6 Count, recognize, represent, name, and order a number of objects (up to 10).

Standard 2: Computation

K.2.1 Model addition by joining sets of objects (for any two sets with fewer than 10 objects when joined).

K.2.3 Describe addition and subtraction situations (for numbers less than 10).

Standard 6: Problem Solving

K.6.2 Use tools such as objects or drawings to model problems.

K.6.4 Make precise calculations and check the validity of the results in the context of the problem.

b. **Grade 1**

Standard 1: Number Sense

- 1.1.1 Count, read, and write whole numbers up to 100.
- 1.1.7 Recognize when a shape is divided into congruent (matching) parts.
- 1.1.8 For a shape divided into 8 or fewer congruent (matching) parts, describe a shaded portion as “__ out of __ parts” and write the fraction.
- 1.1.10 Represent, compare, and interpret data using pictures and picture graphs.

Standard 2: Computation

- 1.2.1 Show the meaning of addition (putting together, increasing) using objects.

Standard 3: Algebra and Functions

- 1.3.3 Recognize and use the relationship between addition and subtraction.

Standard 6: Problem Solving

- 1.6.2 Use tools such as objects or drawings to model problems.

c. **Grade 2**

Standard 1: Number Sense

- 2.1.1 Count by ones, twos, fives, and tens to 100.
- 2.1.8 Recognize fractions as parts of a whole or parts of a group (up to 12 parts).
- 2.1.9 Recognize, name, and compare the unit fractions: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{6}$, $\frac{1}{8}$, $\frac{1}{10}$, and $\frac{1}{12}$.
- 2.1.10 Know that, when all fractional parts are included, the result is equal to the whole and to one.

Standard 2: Computation

- 2.2.1 Model addition of numbers less than 100 with objects and pictures.

Standard 6: Problem Solving

- 2.6.2 Use tools such as objects or drawings to model problems.

d. **Grade 3**

Standard 1: Number Sense

- 3.1.1 Count, read, and write whole numbers up to 1,000.
- 3.1.8 Show equivalent fractions using equal parts
- 3.1.10 Given a pair of fractions, decide which is larger or smaller by using objects or pictures.

Standard 3:

- 3.3.2 Solve problems involving numeric equations.

Standard 6: Problem Solving

- 3.6.1 Analyze problems by identifying relationships, telling relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.

e. **Grade 4**

Standard 2: Computation

4.2.2 Represent as multiplication any situation involving repeated addition.

Standard 3: Algebra and Functions

4.3.5 Continue number patterns using multiplication and division.

Standard 6: Data Analysis and Probability

4.6.2 Interpret data graphs to answer questions about a situation.

4.6.3 Summarize and display the results of probability experiments in a clear and organized way.

Standard 7: Problem Solving

4.7.4 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, tools, and models to solve problems, justify arguments, and make conjectures.

4.7.5 Express solutions clearly and logically by using the appropriate mathematical terms and notation. Support solutions with evidence in both verbal and symbolic work.

f. *Grade 5*

Standard 2: Computation

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

Standard 7: Problem Solving

5.7.1 Analyze problems by identifying relationships, telling relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.