

Fourth Grade Learning Expectations

Based on Indiana State Standards

Language Arts

Listening and Speaking

- Retell, paraphrase, and explain what a speaker has said.
- Deliver oral summaries of articles and books that contain the main ideas of the event or article and the most significant details.
- Clarify and enhance oral presentations through the use of appropriate props, including objects, pictures, and charts.
- Present effective introductions and conclusions that guide and inform the listener's understanding of important ideas and details.
- Read prose and poetry aloud with fluency, rhythm, and timing.

Handwriting

- Write smoothly and legibly in cursive, forming letters and words that can be read by others.
- Leave adequate space between letters and between words.
- Write legibly in printing.

Reading

- Use a thesaurus to find related words and ideas.
- Read aloud grade-level-appropriate text fluently and accurately and with appropriate timing, change in voice, and expression.
- Use sentence and word context to find the meaning of unknown words.
- Use knowledge of prefixes and suffixes to determine the meaning of words.
- Distinguish the main idea and supporting details of a text.
- Use knowledge of root words to determine the meaning of unknown words within a passage.
- Compare and contrast information on the same topic after reading about it.

Writing

- Quote or paraphrase information sources, citing them appropriately.

- Proofread one’s own writing, as well as that of others, using an editing checklist or set of rules, with specific examples of corrections of frequent errors.
- Use a computer to draft, revise, and publish writing.
- Use multiple reference materials and online information (the Internet) as aids to writing.
- Write informational pieces with multiple paragraphs that: provide an introductory paragraph; establish and support a central idea with a topic sentence at or near the beginning of the first paragraph; include supporting paragraphs with simple facts, details, and explanations; present important ideas or events in sequence or in chronological order; provide details and transitions to link paragraphs; conclude with a paragraph that summarizes the points; use correct indentation at the beginning of paragraphs.
- Write summaries that contain the main ideas of the reading selection and the most significant details.
- Use varied word choices to make writing interesting.
- Write for different purposes (information, persuasion) and to a specific audience or person.
- Use simple sentences and compound sentences in writing.
- Spell words correctly in own writing.
- Create interesting sentences by using words that describe, explain, or provide additional details and connections, such as adjectives, adverbs, prepositional phrases, and conjunctions.
- Use commas in direct quotations, apostrophes to show possession, and apostrophes in contractions.
- Write narratives (stories) that: include ideas, observations, or memories of an event or experience; provide a context to allow the reader to imagine the world of the event or experience; concrete sensory details.

Mathematics

Number Sense

- Read and write whole numbers up to 1,000,000.
- Round whole numbers up to 10,000 to the nearest ten, hundred, and thousand.
- Order and compare whole numbers using symbols for “less than” ($<$), “equal to” ($=$), and “greater than” ($>$).
- Name and write mixed numbers as improper fractions.
- Write tenths and hundredths in decimal and fraction notations. Know the fraction and decimal equivalents for halves and fourths.
- Round two-place decimals to tenths or to the nearest whole number.

Computation

- Understand and use standard algorithms for addition and subtraction.
- Demonstrate mastery of the multiplication tables for numbers between 1 and 10.
- Use a standard algorithm to divide numbers up to 100 by numbers up to 10.
- Add and subtract simple fractions with different denominators.
- Add and subtract decimals (to hundredths.)

Algebra

- Plot and label whole numbers on a number line up to 100. Estimate positions on the number line.
- Show that multiplication and division are performed before addition and subtraction in expressions without parentheses.
- Understand and use the commutative and associative rules of multiplication.
- Use letters, boxes, or other symbols to represent any number in simple expressions, equations, or inequalities (i.e., demonstrate an understanding of and the use of the concept of a variable.)

Geometry

- Identify, describe, and draw rays, right angles, acute angles, obtuse angles and straight angles.
- Identify, describe and draw parallel and perpendicular lines.
- Identify, describe, and draw parallelograms, rhombuses, and trapezoids.
- Draw a shape that is congruent to another shape.

Measurement

- Measure length to the nearest quarter-inch, eighth-inch, and millimeter.
- Subtract units of length that may require renaming of feet to inches or meters to centimeters.
- Know and use formulas for finding the perimeters of rectangles and squares.
- Know and use formulas for finding the areas of rectangles and squares.
- Find areas of shapes by dividing them into basic shapes such as rectangles.
- Use volume and capacity as different ways of measuring the space inside a shape.
- Add time intervals involving hours and minutes.
- Determine the amount of change from a purchase.

Problem Solving

- Interpret data graphs to answer questions about a situation.
- Apply strategies and results from simpler problems to solve more complex problems.
- Know and use appropriate methods for estimating results of whole-number computations.

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

Science

- Recognize and explain that any invention may lead to other inventions.
- Write descriptions of investigations, using observations and other evidence as support for explanations.
- Demonstrate that the mass of a whole object is always the same as the sum of the masses of its parts.
- Describe that human beings have made tools and machines, such as x-rays, microscopes, and computers, to sense and do things that they could not otherwise sense or do at all, or as quickly, or as well.
- Select and use appropriate measuring units, such as centimeters and meters, grams and kilograms, and degrees Celsius.
- Know and explain that artifacts and preserved remains provide some evidence of the physical characteristics and possible behavior of human beings who lived a very long time ago.

Social Studies

- Explain how key individuals and events influenced the early growth of the new state of Indiana.
- Explain the roles of various individuals, groups, and movements in the social conflicts leading to the Civil War.
- Distinguish fact from opinion and fact from fiction in historical documents and other information resources.
- Explain the major purposes of the Constitution.
- Identify and explain the major responsibilities of the legislative, executive, and judicial branches of the federal government.
- Identify major governmental offices and the duties and powers associated with them, such as governor, president, court justice, senators, and representatives and how they are chosen.
- Explain that Indiana is one of fifty states in the United States and that other countries are also made up of smaller units, such as states, provinces, or territories.

Project Work

- Shows ability to share information learned.
- Presentation is organized.
- Uses creativity in project work and makes presentations interesting.

- Looks at the audience when presenting and speaks clearly.
- Includes all components requested and completes project on time.
- Is a respectful audience participant when others are presenting.

Arts

Fine Arts

- Participate in art activities.
- Identify and incorporate artistic principles, such as repetition, symmetry, and contrast in artwork.
- Explore new media.

Music

- Participates in singing & rhythmic activities.
- Combines movement and music.
- Recognizes changing pitch (high vs. low.)
- Recognizes rhythmic patterns.
- Is attentive, cooperative and enthusiastic in class.

Physical Development and Education

Small and Large Muscle Control

- Throw and catch balls.
- Run and jump.
- Hop and skip.
- Hand-eye coordination.
- Coordination and balance.

Physical Education

- Follow rules in game play.
- Explain why physical activity leads to better health.
- Choose appropriate physical activities to promote muscle conditioning and exercise.

Social/Emotional Development

- Accept responsibility for own actions.
- Observe rules of classroom.
- Listen to others in discussions.
- Participate cooperatively in activities.

- Respect the need to keep self/others safe.
- Interact responsibly with others.
- Express thoughts and feelings appropriately.
- Take satisfaction in accomplishments.
- Respect the right of others to work undisturbed.

Work Habits

- Attention span adequate for good comprehension.
- Assume responsibility for completion of class work.
- Seek help when it is realistically needed.
- Work well independently.
- Work well with others.
- Follow directions.
- Use time constructively.
- Show personal investment in work.