



Fifth Grade

Reading
Writing
Communications
Mathematics
Science / Health
Social Studies
The Arts
Physical Education
Technology

Reading

In fifth grade, students focus on broadening and deepening their use of reading to satisfy both interests and needs in and beyond the school setting. They use both functional and literary reading effectively. Fifth graders are becoming increasingly confident and competent in a range of technological resources as well as conventional print matter. They read fluently and with ease while still being able to discuss the strategies used and identify areas for improvement.

Understand and use different skills and strategies to read

- Use strategies including decoding, self-correcting, re-reading, and context clues.
- Apply word study skills such as origins, prefixes, and suffixes.
- Read a variety of texts with fluency and expression.
- Adjust rate to match text and purpose.
- Skim or scan for information.

Understand the meaning of what is read

- Use knowledge of text structures or story elements to respond, retell, or summarize.
- Comprehend and summarize important ideas and details.
- Make inferences and predictions.
- Find similarities and differences between two or more texts.
- Separate fact from opinion.
- Respond to information gained from reading and expresses personal insights.
- Evaluate information gained through text and illustration.
- Identify literary devices such as figurative language and exaggeration.

Read different materials for a variety of purposes

- Read to learn new information from a variety of resource material.
- Read to perform a task.
- Use appropriate vocabulary when referencing text features.
- Read a variety of genres.
- Use dictionaries, glossaries, thesauruses, and other tools to increase vocabulary.
- Use tables, maps, graphs, and other tools for a specific purpose.

Writing

During the fifth grade year, students develop a strong personal voice in their writing. This is reflected in the way they inject humor and tension into their narrative writing and how they add emphasis or opinion into informational and persuasive writing, especially in the content areas. Collaborative writing efforts are taken more seriously, often with assigned responsibilities and checklists. Scoring guides provide criteria for critiquing their own work and that of others. These guides are often detailed, addressing content, organization, style, and conventions.

Write clearly and effectively

- Write with increasing elaboration and detail (ideas and word choice).
- Vary sentence patterns (sentence fluency).
- Include a main idea, introduction, supporting details and conclusion (organization).
- Use transitions between paragraphs (organization).

- Use language that is precise, engaging, and well suited to the topic and audience (voice).

Understand and use the conventions of writing

- Use correct punctuation.
- Use appropriate capitalization.
- Use correct grammar.
- Use appropriate sentence structure.
- Use correct spelling of grade level words.
- Use resources to find correct spelling for words identified as misspelled.

Understand and use the writing process

- Use pre-writing strategies for creating a draft with a focus on meaning and purpose.
- Create a draft, elaborating on an initial idea.
- Revise to clarify meaning, improve organization, elaborate on ideas and respond to feedback.
- Use appropriate reference tools to correct mechanics and grammar.
- Publish a final draft.
- Use technology to produce a finished product when appropriate.

Write in a variety of forms for different audiences and purposes

- Write to meet the needs of different audiences.
- Write for a variety of purposes including expository, narrative, persuasive, literary analysis, and business.
- Continue to write with range of forms and genres (e.g., stories, journals, letters, essays, articles, summaries, etc.).
- Cite sources when writing reports or technical documents.
- Respond to prompts (e.g., explain, tell a story, etc.).

Analyze and evaluate the effectiveness of written work

- Use writing traits criteria.
- Reflect on own writing.
- Ask for and considers feedback from peers.
- Provide feedback on other's writing.

Use legible handwriting

- Use correct size and shape of letters in daily written work.

Communication

Fifth grade students speaking effectively to explain and to inform. The two emphases at this grade span are group work and persuasive speaking. At this level, students are beginning to

use the sophisticated skills necessary for effective persuasive speaking. They begin to develop an understanding of persuasion and how it affects the choices they make in preparing a persuasive speech. Students have the opportunity to work in groups and to practice collaborative skills. During grade five they continue to develop an understanding of the group process with an emphasis on working productively with others and developing a work ethic. Students are beginning to apply what they have learned about persuasive techniques to analyzing advertising.

Use listening and observational skills to gain understanding

- Focus attention.
- Observe and listens to gain and interpret information
- Ask appropriate questions.
- Paraphrase information.

Communicate clearly and effectively in presentations

- Speak with clarity and organization.
- Use projection and expression.
- Demonstrate correct posture and eye contact.
- Use appropriate grammar.

Communicate clearly and effectively with others

- Use appropriate conversation skills.
- Demonstrate conflict resolution skills.
- Work in assigned roles within a group.
- Take turns listening and speaking.
- Share opinions.

Mathematics

By the end of the fifth grade, students demonstrate an understanding of the meaning of whole numbers, fractions, decimals, and percents. Students can add, subtract, multiply, and divide whole numbers; add and subtract decimals, fractions, and mixed numbers; and determine and justify the reasonableness of their answers by using the estimation strategy most appropriate to the situation. They identify and describe geometric properties and can describe the location of points on a coordinate grid. Students determine the probability of possible outcomes. They can create, organize, read, and interpret tables, charts, and graphs

when analyzing and comparing data. They can describe and explain how to use specific measures of central tendency for simple data. They translate problem-solving situations into simple mathematical equations containing a single variable and can solve problems by identifying the unknowns. They can make and test conjectures based on data they have collected and evaluate their procedures. They express mathematical ideas using everyday language, models, charts, tables, and symbols. They recognize relationships within mathematics, use mathematics in familiar settings in other disciplines, and identify how mathematics is used in career settings.

Understand and use number sense

- Know basic division facts.
- Identify, represent, and order whole numbers up to 1,000,000,000.
- Apply understanding of divisibility (multiples, factors, primes, and composites).
- Identify, describe, and compare fractions, decimals, and percents.
- Add, subtract, and multiply decimals and common fractions.
- Select and apply appropriate computational strategies to solve problems for a situation using the four basic operations with multi-digit whole numbers.
- Use estimation to predict results or determine reasonableness of answers.

Understand and apply the concepts and skills of mathematics measurement

- Select and use appropriate tools and units of measure (customary and metric).
- Solve problems involving perimeter, area, length, volume/capacity, weight/mass, time, temperature, and angle measure.
- Use both exact and approximate measures as appropriate.

Geometric sense

- Identify, describe, and apply properties of two and three dimensional geometric figures (angle, segment, parallel, symmetric, perpendicular, similar, congruent).
- Identify and plot points on coordinate grids (first quadrant).
- Identify and create simple transformations using translations, reflections, or rotations.

Probability and statistics

- Collect, organize, display, and interpret data.
- Make predictions or inferences from data.

- Use mean, median, and mode as appropriate.
- Determine the probability of a simple random event.

Algebraic sense (patterns and relationships)

- Recognize, describe, extend, and create a variety of patterns with number sentences, tables, and graphs.
- Use patterns to make generalizations and predictions.
- Set up and solve simple equations.
- Find the values of expressions with variables.

Solve problem using mathematical reasoning problem solving

- Use, create, and evaluate a variety of strategies to solve problems.
- Formulate questions about problems, identifying necessary and unnecessary information.
- Identify the unknown in a problem.
- Apply appropriate methods, operations, and processes to construct a solution.

Reasoning

- Support thinking using models, known facts, patterns and relationships.
- Make and test conjectures and predictions.
- Check for reasonableness of results.
- Reflect on and evaluates procedures.

Communicate mathematical knowledge and understanding

- Create a plan to collect and organize information.
- Gather, extract, and interpret information from a variety of sources.
- Express mathematical understanding and ideas using everyday language, models, tables, charts, graphs, and symbols.

Science/Health

Students learn to use the scientific process of gathering data, investigating, interpreting data, and drawing conclusions. Units of study for science/health may include: Energy, Simple Machines, Oceanography, Human Body Systems and Functions, Family Life and Sexual Health, and Drug Awareness.

Science/Health concepts and principles

- Understand concepts and principles.
- Apply the scientific method.

Social Studies

The focus is on the United States. Units of study for social studies may include United States exploration and colonization, revolutionary war, and geography.

Social Studies concepts and skills

- Demonstrate an accurate knowledge of information presented.
- Exhibit an awareness of the relationship between people, environment, and culture.

Science/health and social studies in all grades are developed around units of study that emphasize a core concept or theme. In fifth grade the theme is "conflict and change". Students in fifth grade also work on cause and effect, defining problems and exploring alternative solutions, and finding evidence.

Art

Students have opportunities to:

- Understand and apply art knowledge and skills.
- Demonstrate thinking skills using artistic processes.
- Communicate through the arts.
- Make connections within and across the arts to other disciplines, cultures, life and work.

Music

Students have opportunities to:

- Read, note, and perform rhythm.
- Hear, discriminate, perform, read, and note pitch.
- Listen to, analyze, demonstrate, and describe qualities of sound.
- Identify simple music forms.
- Experience and perform independent parts while others sing or play.
- Understand and creatively interpret expressive markings and cues.
- Sing alone and with others, a varied repertoire of music.
- Understand music in relation to history and culture.

Physical Education

Students have opportunities to:

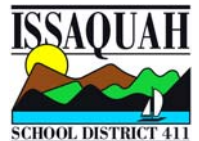
- Explore, develop, and refine basic movement and manipulative skills through a variety of activities.
- Understand and appreciate their own fitness level while engaging in a variety of physical activities.

- Demonstrate responsible behaviors and positive sportsmanship skills

Technology

Students have opportunities to learn and use:

- Basic operations and concepts
- Productivity tools that include word processing, database, spreadsheet, graphics, multimedia
- Communication tools
- Technology for research
- Network skills
- Technology ethics



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