

Math

- Identify prime/composite numbers; Square numbers
- Calculate the square root
- Solve number stories and word problems using addition/subtraction of decimals
- Estimate reaction times and probability
- Calculate the product of decimal numbers
- Identify degrees of angle measures
- Define types of triangles
- Classify polygons
- Identify and analyze attributes of 2-D and 3-D shapes using mathematical vocabulary
- Estimate distances using map scales
- Convert mixed numbers/improper fractions
- Order fractions; Find equivalent fractions
- Rename fractions as decimals; Convert fractions to percents
- Measure with customary units of length
- Interpret data in line plots and stem-and-leaf plots
- Recognize/extend geometric and numeric patterns
- Write numbers in exponential and scientific notation
- Use Order of Operations to solve problems
- Add and subtract positive and negative numbers
- Compare fractions
- Multiply and divide fractions, whole numbers, and mixed numbers
- Find the percent of a number
- Find the area of a rectangle, triangle and parallelogram

- Determine the perimeter/area of irregular shapes
- Translate word descriptions into algebraic expressions
- Predict the probability of an outcome
- Interpret line graphs
- Compare properties of geometric solids
- Convert measurements of weight and capacity
- Factor trees/Tree Diagrams
- Solve problems involving ratios
- Collect, graph and interpret data (double bar graphs, double line graphs, etc.)
- Translations, rotations, and reflections
- Determine mean, median, mode and range of a given set of data

This curriculum guide is designed to give parents and students alike a clear representation of the academic goals and expectations of a particular grade level. Please utilize this information to support your child's quest to pursue a quality education.

Materials are available to you from our school to assist you with helping your child achieve these academic goals. The materials can be taken home for your own personal use. If you have any questions or concerns, please feel free to contact your child's classroom teacher.

Sincerely,
Mr. S.L. Jackson, Principal

Visit www.spencertech.org



FIFTH GRADE CURRICULUM GUIDE

Spencer Technology Academy

*“Moving Students
Beyond the Immediate”*



Spencer Technology Academy

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A Fifth Grade Seahawk Student must have:

Literacy

A. Word Analysis and Vocabulary

- Use combination of word analysis and vocabulary strategies (e.g. phonics, word patterns, structural analysis) to identify words.
- Use multiple resources to understand meaning of new words (dictionary, thesaurus, and glossary).
- Use word origins, and synonyms and antonyms to construct meanings of new words.
- Determine meaning of word in context when word has multiple meanings.
- Use high frequency root words and affixes to understand word meaning.

B. Comprehension and Fluency

- Read age-appropriate material aloud with fluency, accuracy, and expressions.
- Use comprehension strategies to enhance literal and inferential understanding of text.
- Establish purpose for reading before and during reading.
- Make judgments based on prior knowledge during reading.
- Identify and relate event in a text to personal experiences.
- Recognize characteristics of setting and theme.
- Recognize characteristics of suspense, rising action, climax, and falling action in story plot.
- Recognize literary elements and techniques of various selections.
- Make inferences about character traits and checks text for verification.
- Apply personal background and experience to literary text.
- Read independently for extended periods of time.

C. Writing and Spelling

- Write paragraphs that include a variety of sentence types. (i.e. declarative, interrogative, exclamatory, imperative)
- Develop multi-paragraph compositions that include introduction, first and second level support, and conclusion
- Use transition words to connect ideas
- Elaborate ideas through facts, details description, reasons, and narration
- Write correct standard English conventions, including appropriate grammar, spelling, capitalization and punctuation
- Use stages of writing process (prewriting, drafting, revising, editing, and publishing) to produce well-developed expository, narrative, and persuasive pieces.
- Write creatively for specified purpose and audience (e.g. short story, poetry, rap, play, parody, song, letter)
- Use varied and descriptive vocabulary to enrich written language

D. Listening and Speaking

- Formulate relevant and focused questions and answers in a variety of settings.
- Paraphrase and summarize the content of both formal and informal presentations and messages.
- Deliver oral presentation that is coherent, well organized, and rehearsed.
- Use spoken language that is clear, audible, and appropriate.
- Contribute meaningfully and politely to small and large group discussions with relevant responses, and respectful listening behaviors.

Technology

Basic Operations and Concepts:

- Use keyboards and other common input and output devices (including adaptive devices when necessary) efficiently and effectively.

Social, ethical, and human issues:

- Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.

Technology productivity tools:

- Use general purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout curriculum.
- Use technology tools (e.g., multimedia authoring, presentation, Web tools, digital cameras, scanner) for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.

Technology Communication tools:

- Use telecommunications efficiently to access remote information, communicate with others in support of direct and independent learning, and pursue personal interest.
- Use telecommunications and online resources (e.g., e-mail, online discussions, Web environments) to participate in collaborative problem-solving activities for the purpose of developing solutions of products for audiences inside and outside the classroom.

Technology research tools:

- Use technology resources (e.g., calculators, data collection probes, videos, educational software) for problem solving, self-directed learning, and extended learning activities.
- Determine which technology is useful and select the appropriate tool (s) and technology resources to address a variety of tasks and problems.

Technology problem-solving and decision making tools:

- Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.