Math

- Classify quadrangles
- Distinguish between convex and concave
- Find equivalent names for numbers
- Identify lines, angles and triangles
- Determine whether number sentences are true or false
- Solve open sentences
- Compare and order decimal numbers
- Estimate with decimals
- Recognize equivalent representation for decimals
- Write number with exponential notations
- Represent data using tables and graphs
- Compare different representations of data (i.e., mean, median, etc.)
- List possible outcomes of an event
- Solve equal grouping stories
- Locate points on a coordinate grid
- Draw and classify angles
- Find the longitude and latitude
- Add and subtract fractions
- Identify equivalent fractions
- Re-name fractions as decimals; order fractions
- Measure perimeter, area, and surface area of polygons
- Identify number patterns; Create and extend patterns
- Percents; Make conversions among fractions, decimals, and percents
- Multiply and divide decimals
- Reflections (Identify lines, discover basic properties, connect reflections and symmetry)
- Add and subtract positive and negative numbers
- Identify geometric solids
- Solve rate problems
- Convert rates and customary measurements
- Calculate unit prices
- Compare prices
- Calculate fractions of cents
- Estimation of perimeters, areas and volumes of regular and non-regular shapes

This curriculum guide is designed to give parents and students alike a clear representation of the academic goals an 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

FOURTH GRADE CURRICULUM GUIDE

Spencer Technology Academy

"Moving Students Beyond the Immediate"

Spencer Technology Academy

214 N. Lavergne
Chicago, Il. 60644

Phone: 773-534-6150
Fax: 773-534-6239

A Fourth 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, context) to identify words.
- Use multiple resources to understand meaning of new words (dictionary, thesaurus, and glossary).
- Identify and use synonyms and antonyms.
- 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.
- Determine literal meaning by using a variety of comprehension skills and strategies.
- Interpret concepts and make connections by inference and/or comparison.
- Use evidence in text to modify predictions and questions, generate and confirm or reject hypotheses.
- Identify and relate event in a text to personal experiences.
- Read a wide range of fiction and nonfiction (e.g. books, newspapers, magazines, textbooks, visual media).
- Identify and discuss story elements: themes, plots, subplots, characters, story setting .
- Summarize and apply information from nonfiction materials
- Read independently for extended periods of time.

C. Writing and Spelling

- Combine well-written sentence into a cohesive paragraph (e.g. topic sentence, details, summary/conclusion sentence) and a variety of sentence types.
- Use prewriting strategies to choose a topic and generate ideas with limited teacher assistance.
- Organize paragraph (s) wit a clear beginning, middle, and end, appropriate subject/verb agreement, and appropriate 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 stories, poetry, rap, play, parody).
- Use varied and descriptive vocabulary to enrich written language.
- Correctly spell appropriate high-frequency words.
- Apply previously learned spelling words in written work.

D. Listening and Speaking

- Formulate relevant and focused questions and answers in a variety of settings.
- Paraphrase and summarize the content to both formal and informal presentations and messages.
- Deliver oral presentation that is coherent, well organized a 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.
- Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide.

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.