MSAD 75 GRADE FOUR CURRICULUM

READING

Interconnected Elements

- ∞ Uses a range of strategies during reading including constant monitoring, searching, connecting, and inferring to deepen understanding of text(s).
- ∞ Demonstrate ownership of appropriate vocabulary by effectively using a word in different contexts and for different purposes.
- ∞ Determines the meaning of unknown words in grade level text by using a variety of strategies including applying knowledge of synonyms, antonyms, homophones, and homographs.
- ∞ Uses phonics including word parts (prefixes, suffixes, and multi-syllabic structures) and common root words to read fluently and build meaning as they read.
- ∞ Reads fluently and accurately with appropriate pacing, phrasing, intonation and expression.
- ∞ Demonstrates comprehension of text(s) by stating connections or inferences made.

Literary Texts

- ∞ Uses knowledge of the situation, setting, and a character's traits, motivations, and feelings to determine the causes for that character's actions.
- ∞ Identifies the main events of the plot including the cause and the effect of events on future actions and the major theme(s).
- ∞ Defines "narrator" and identifies the narrator or speaker in a selection or story to aid comprehension.
- ∞ Identifies and describes the effect of common literary devices on the reader, including figurative language and symbolism, to understand the text.
- ∞ Explains theme(s) that are explicitly stated in text(s).
- ∞ Identifies rhyme, rhythm, alliteration, and onomatopoeia in poetry and use this knowledge to understand poems.
- ∞ Identifies the main purpose of a passage or particular parts of a passage to aid comprehension.

Informational Text

- ∞ Creates questions that can be answered by the text using text features and information found within the text.
- ∞ Uses organizational text features including headings and sub-headings, bullets, bold-face fonts, illustrations, maps, and charts to locate information or to aid comprehension.
- ∞ Identifies the main idea(s) of and details from the text which support the main idea(s) succinctly stating this information.
- ∞ Draws conclusions about information from text.
- ∞ Follows multi-step written instructions with four or more steps.
- ∞ Identifies the main purpose of a text, particular paragraphs, or a section of the text to aid comprehension.

WRITING

Interconnected Elements

- ∞ Selects purpose for writing.
- ∞ Pre-writes with an organizing structure.
- ∞ Writes coherent paragraphs that have a clear topic.
- ∞ Revises original drafts to provide better descriptive details and to improve coherence.
- ∞ Edits for usage and mechanics.
- ∞ Creates legible final draft with spacing between words.

Spelling

- ∞ Spells grade level "No Excuse" words.

Narratives

- ∞ Provides enough details and description so that the reader can imagine the event or experience.
- ∞ Includes major events, settings, and characters and deals with problems and solutions in a story.
- ∞ Includes some thoughts, dialogue or feelings.

Argument / Analysis

- ∞ Summarizes information from reading or viewing.
- ∞ Writes about a central question by using relevant supporting facts and details.

Persuasive

- ∞ Writes a paragraph that establishes a clear position and includes two to three supporting sentences.

Practical Application

- ∞ Writes letters, other requests for information or directions for completing a process.

RESEARCH

- ∞ Identifies key words and concepts related to research questions, making adjustments when appropriate.
- ∞ Locates and accesses information by using *text features*.
- ∞ Collects, evaluates, and organizes information for a specific purpose.
- ∞ Communicates findings from a variety of *print and non-print sources*.
- ∞ Describes plagiarism and demonstrates appropriate *citation*.

LISTENING

- ∞ Asks clarifying questions.
- ∞ Attends and responds appropriately to classmates and adults.
- ∞ Follows multi-step oral instructions.

SPEAKING

- ∞ Explains ideas clearly and responds to questions with appropriate information.
- ∞ Speaks using eye contact, clear enunciation, clear gestures for emphasis, and appropriate volume and rate.
- ∞ Shares information summarized from reading, listening, or viewing and forms a position on a topic, supporting the position with a variety of *print and non-print sources*.

MATH

Numbers

- Students understand and use number notation and place value to 10,000 in numerals.
  a. Read and write numbers up to 100,000 in numerals and words
  b. Recognize the place values of digits in numbers up to 100,000.
  c. Compare and order numbers with up to five digits.
  d. Round numbers to the nearest 100 or 1000.
- Students understand and use the concepts of factor and multiple.
  a. Determine if a single-digit number is a factor of a given whole number.
  b. Determine if a whole number is a multiple of a given single-digit number.
  c. List the first ten multiples of a given number.
- Students understand and use procedures to multiply and divide whole numbers by two-digit numbers.
  a. Multiply up to four-digit numbers by a single-digit number.
  b. Multiply three-digit numbers by two-digit numbers.
  c. Divide whole numbers up to four digits by a single-digit number and by ten (remainders may be present).
- Students recognize, name, compare, illustrate, and use fractions.
  a. Add and subtract fractions with like denominators and use repeated addition to multiply a unit fraction by a whole number.
  b. List equivalent fractions.
  c. Represent fractions greater than one as mixed numbers and mixed numbers as fractions.
- Students understand and use number notation and place value in numbers with two decimal places in real-world contexts including money.
  a. Compare, order, read, round, and interpret decimals with up to two decimal places.
  b. Add and subtract decimals with up to two decimal places.
  c. Multiply and divide decimals with up to two decimal places by a one- digit whole number.
  d. Connect equivalent decimals and fractions for 1/10s, 1/4s and 1/2s in meaningful contexts.

Data and Measurement

- Students understand and use measurement of time, capacity, and temperature.
  a. Select appropriate tools and units for these measures.
  b. Solve and justify problems with these measures.
- Students collect and represent data in tables, line plots, and bar graphs, and read and interpret these types of data displays.

Students are expected to have experiences with probability in these grades, but it is not expected that the knowledge will be secure.

Geometry and Measurement

- Students identify and name angles, lines, relationships between lines, quadrilaterals, and triangles.
  a. Identify perpendicular and parallel lines and sides.
  b. Identify and sketch the following quadrilaterals: rectangle, square, parallelogram, rhombus, and trapezoid.
  c. Identify and sketch the following triangles: isosceles, equilateral, acute, obtuse, and right.
- Students understand the concept of area of a figure.
  a. Find the area of shapes in non-standard units.
  b. Find the area of squares and other rectangles in standard units.
  c. Recognize and estimate the relative sizes of one square meter and one square centimeter and one square inch and one square foot.
- Students recognize congruent figures and line symmetry in figures.
  a. Recognize whether a line is a line of symmetry in a figure.
  b. Recognize congruent figures.

Algebra

- Students create and evaluate simple expressions in the context of numbers and operations as described in Standard 2.1: Number * for this grade level.
- Students find the unknown in simple equations in the context of numbers and operations as described in Standard 2.1: Number * for this grade level such as:

3 • b = 12

3 + 4 = x + 5

6 x 5 = 3 x [ ].

- ∞ Students create, describe, explain and extend patterns with numbers and geometric objects.

SCIENCE

Ecosystems

Describes a food web and the relationships of living and nonliving parts of a given ecosystem

Cells

Demonstrates an understanding that a cell is the basic unit of living organisms

Structures of Matter

Explains how matter changes in both chemical and physical ways

Energy

Identifies different forms of energy (e.g., light, sound, heat)

Explains how force and mass affect the motion of objects

Scientific Process

Designs and builds an invention

HEALTH

- ∞ Evaluates influences of culture on health
- ∞ Understands how external factors such as the media, culture, technology, and peers can influence behaviors that effect health
- ∞ Applies a decision-making process to a health problem
- ∞ Explains and gives examples of various indicators of mental and emotional health
- ∞ Identifies personal safety strategies
- ∞ Gives examples of agencies that can assist with health problems

Communication in Health

- ∞ Understands how effective communication techniques can lead to health and safety.

SOCIAL STUDIES

Civics and Government

- ∞ Explains the economic, geographic and political factors that have influenced immigration to and settlement in Maine
- ∞ Describes the roles of the three branches of state government

Economics

- ∞ Explains how the Maine economy has developed around foreign trade and the availability of natural resources

Geography

- ∞ Identifies specific regions of Maine and describes some of their geographic and cultural features
- ∞ Uses political, population, and special maps of the U.S. to interpret geographical features

History

- ∞ Compares and contrasts Maine communities of the past and present
- ∞ Identifies famous Maine individuals and groups and describes their contributions to society