

GRADE 3 CURRICULUM

A Message for the Parents:

The outlines in this pamphlet are the products of several years of ongoing curriculum work by the administrators and teachers of the Lebanon School District. Using National Standards and the New Hampshire State Curriculum Frameworks as guides, the district staff has completed documents of content and skills for Language Arts, Mathematics, Social Studies and Science that have been adopted by the Lebanon School Board. This pamphlet includes the scope and sequence outlines from those documents.

The curriculum documents that have been completed will ensure the fulfillment of two district goals: (a) that the content and skills are taught in our classrooms are in alignment with the state frameworks, and (b) that the consistency and continuity of curriculum and instruction will be enhanced in schools across the district. The district's focus is on the refinement of the curricula as we meet the needs of diverse learners in the regular classrooms. Curricular accountability is ensured through the use of the New England Common Assessment Program (NECAP) tests and other district wide assessments.

This pamphlet is designed to help parents understand the classroom curriculum for a given grade. Your child's teacher can give you more detail about the presentation of topics and the expectations for students. We hope that this information will help you to support your child's learning and to contribute to the continued improvement of curriculum and instruction in the district. Public knowledge and input are critical to the ongoing curriculum review process. We invite parents and community members to participate in the process and to provide comments and recommendations.

Michael Harris, Ph.D., Superintendent

Algebra

Students will develop confidence exploring basic mathematical patterns and relationships and applying them in problem solving. They will:

- Write a number sentence/equation to express a relationship ($2+3=5$)
- Explore the commutative and associative properties of addition and multiplication ($2+3=3+2$).

Mathematics of Change

Students will recognize and calculate net change in an event (e.g. temperature from highest to lowest over 24 hours).

SCIENCE

Physical Science

- **Sound, Light, & Heat Energy:** Explore properties and sources in relation to human senses
- **Structures and Design:** Explore properties of real-world materials used in structural settings.

Life Science

- **Forest Ecosystem:** Study NH forest plant and animal species with focus on life cycles, succession, producers/consumers/decomposers, conservation, change through the seasons, and interdependence of species

Earth/Space Science

- **Astronomy:** Study elements of our Solar System, especially the relationship between the Sun and planets (focus on Earth/ Moon connection). Explore idea of Sun as a star and source of all Earth's energy.

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LEBANON SCHOOL DISTRICT

READING

Construct Meaning

- Read fluently and accurately with understanding utilizing multiple sources of information
- Identify major story elements: characters, setting, main events, conflict and resolution, plot, theme, main idea, supporting details
- Compare and contrast stories; make inferences from text and illustrations

Comprehension Skills & Strategies

- Select from a variety of strategies before, during and after reading to construct and monitor for meaning
- Before reading, preview materials, identify a purpose for reading, anticipate what may happen, and choose materials appropriate to skills and task
- During reading, re-read to confirm and extend understanding; ask questions; self-correct errors, and adjust pace to difficulty of material
- After reading, retell to clarify what is known and reread to locate details, confirm understanding and answer questions

Vocabulary & Reading New Words

- Determine pronunciation and meaning of words using:
 - ❖ Phonics and decoding skills
 - ❖ Irregular phonograms and silent consonants
 - ❖ Dividing words into syllables and vowel sounds in syllables
 - ❖ Sentence structure
 - ❖ Graphics, pictures and context clues
 - ❖ Roots, prefixes and suffixes
 - ❖ Contractions, compound words, and possessives
- Recognize and understand high frequency words, idioms, specialized vocabulary, and analogies

Information Gathering

- Identify information needed and develop a strategy to find it
- Interpret directions; alphabetical order; lists; tables; charts; beginning, middle and end; who, what, when, where; thinking maps; and timelines
- Use simple reference tools (dictionaries, maps, globes, encyclopedias, newspapers, magazines, and vertical files)
- Use automated and cataloging systems to locate books.
- Read, listen to and view a variety of materials to gather information
- Identify main ideas and supporting details
- Use other information sources including surveys, interviews, artifacts, CD-ROM, primary sources telecommunications, A-V materials, and pictures
- Organize, interpret, present and/or publish information using multiple strategies, materials and visual aids
- Report clearly and concisely in oral and written language using words, pronunciation and grammar appropriate to the situation, topic, purpose and audience

Literature

- Recognize and understand story elements including character, setting, conflict, plot, theme
- Identify author's purpose or intent in written, spoken and audio-visual texts
- Understand the characteristics of a variety of genres: fiction, non-fiction, fantasy, fairy tales, poetry and plays
- Begin to compare authors' and illustrators' styles
- Demonstrate knowledge, understanding and appreciation of a variety of recognized literature: poetry, stories, myths and legends, novels, and author studies

WRITING

Write effectively for a variety of purposes

- Organize ideas in a logical progression (beginning, middle, end, paragraphs)

Use a variety of techniques before, during and after writing to generate ideas, plan, draft, revise, edit and publish texts

- Prepare written draft and make revisions for content, accuracy and clarity
- Proofread for correct spelling
- Publish final work in legible handwriting or word processing

Maintain meaning through correct grammar, usage and mechanics

- Use capitalization, commas, apostrophes, ending punctuation and quotation marks correctly
- Write alphabet in manuscript and cursive
- Recognize subject and predicate of a sentence
- Use abbreviations (Mrs., Mr., states, months, days)
- Use format of a friendly letter and address the envelope

SOCIAL STUDIES

The Earliest Americans' Exploration & Settlement of North America

The Thirteen Colonies

Ancient Roman Civilization

Current Events

Geography is explored throughout all units

MATHEMATICS

Students will effectively communicate accurate mathematical reasoning in problem solving contexts integrated across diverse curriculum disciplines and everyday situations. They will apply skills from the following math sub-categories:

Number Sense

Students will work towards proficiency in understanding and applying concepts of: place value (zero to 999), whole numbers (even/odd, greater than/less than, multiples/factors of 1-10), simple fractions, decimals (to hundredths given physical models), and positive and negative numbers in everyday situations (ie: thermometer).

Computation

Students will accurately and efficiently:

- Add and subtract whole numbers, fractions, and decimals (money context),
- Demonstrate mastery of multiplication facts with factors (1-5) x (1-10).
- Explore division as shared groups of objects.
- Use estimation to determine the reasonableness of an answer.
- Recognize the associative and commutative properties in computation problems.

Geometry

Students will explore concepts in:

- Linear (horizontal/vertical, lines of symmetry), 2-D (properties of polygons and circles), and 3-D (sphere, cylinder, prism) contexts.
- Coordinate geometry, including symmetry and transformations (translations, reflections, and rotations).

Measurement

Students will explore and apply appropriate measurement tools (scales, thermometers, rulers, etc.) and units in Metric and U.S. Standard systems in: linear, area, weight/mass, volume/capacity, temperature, time, and money contexts.

Data Analysis

Students will:

- Collect, organize, and present data using the appropriate graphic format (picture or bar graph).
- Write a story based on data from a graph.
- Make predictions based on interpretation of probability of an event happening.