Curriculum Team Vision

All teachers will plan for all instruction using the Massachusetts Curriculum Frameworks, aligned to the Common Core, and craft powerful learning experiences for students.

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The Lynn Public Schools
Excellence and Innovation in Education

Catherine C. Latham, Ed.D
Superintendent

Jaye E. Warry, Ed.D
Deputy Superintendent

Patrick Tutwiler, Ed.D
Deputy Superintendent

First Grade Curriculum Guide
The first grade student will:

**Language:**
- Tell or retell stories, remaining on topic, demonstrating correct sequence and using appropriate details.
- Demonstrate active listening skills.
- Activate prior knowledge and follow agreed upon rules when contributing to class discussions.
- Identify sounds, understand the relationship between oral and written language, and appropriately extend word knowledge.
- Demonstrate an understanding of three parts of speech: nouns, verbs, and adjectives.
- Begin to use standard English conventions, including capital letters, ending punctuation marks, spelling, and subject/verb agreement.

**Reading and Literature:**
- Read a variety of materials for enjoyment, vocabulary development and information, demonstrating appropriate fluency.
- Show an understanding of characters, setting, problem, and solution.
- Compare/contrast various genres of literature, including fantasy and reality, fiction and nonfiction, story and poetry.
- Demonstrate an understanding of story sequence.
- Begin to monitor for meaning, demonstrating interaction with print.
- Summarize stories and information. Use evidence from the text to support ideas and to demonstrate understanding.

**Composition:**
- Learn, practice and apply printing skills, using proper manuscript letter formation and spacing between words.
- Write using a variety of forms including stories, poems, friendly letters, journal entries, reports, and personal narratives.
- Write a paragraph with a topic sentence, supporting details, and closing in response to a personal narrative prompt.
- Begin to use the writing process, engaging in prewriting/planning, drafting, assessing, revising, editing, and publishing with teacher guidance.
- Write an animal/adventure story.

**Mathematics**

The first grade student will:

**Operations and Algebraic Thinking**
- Represent and solve problems involving addition and subtraction.
- Understand and apply properties of operations and the relationship between addition and subtraction.
- Add and subtract within 20.
- Work with addition and subtraction equations.

**Number and Operations in Base Ten**
- Extend the counting sequence.
- Understand place value.
- Use place value understanding and properties of operations to add and subtract.

**Measurement and Data**
- Measure lengths indirectly and by iterating length units.
- Tell and write time.
- Represent and interpret data.
- Work with money.

**Geometry**
- Reason with shapes and their attributes.

**Social Studies**

The first grade student will:
- Listen to and read folk tales and true stories from America and from around the world.
- Learn about major historical events, figures and symbols related to the United States of America and its national holidays and why they are important to Americans.
- Study concepts in geography, civics, economics, and history, while also learning about each other’s families and about the achievements of different people in different times and places.

**Science and Technology**

The first grade student will:
- Be introduced to the science, engineering and technology standards with a focus on scientific observation and exploration. The 10 units contain many manipulative activities and are designed to teach the youngest students how scientific topics are connected.
- Unit Topics are:
  - Changing Matter
  - Air
  - Storms
  - Water Flow
  - Seeds and Leaves
  - Insects
  - Microbes
  - Optical Illusions
  - Transportation
  - Designing Homes

**Health Dynamics**

The first grade student will:
- Identify physical and psychological changes that result from physical activities.
- Explain benefits associated with physical fitness, health, and an active lifestyle.
- Demonstrate responsible personal and social conduct used in physical activity settings.
- Apply knowledge of fundamental movement skills towards more complex activities.
- Develop muscular strength and fitness.
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Art

The second grade student will:
- Explore how different media, techniques, and processes can communicate ideas and feelings.
- Experiment with and learn to control painting and drawing materials such as tempera paint, crayons, chalk, and watercolors.
- Construct with and manipulate various 3-D materials such as clay and papier-mâché.
- Further develop art skills, understand design concepts, and comprehend art vocabulary.
- Understand the proper use and care of art materials and equipment.
- Investigate various historical periods and cultures through the use of art history.

Music

The second grade student will:
- Continue to expand vocal range and pitch.
- Become familiar with the hand staff system of reading musical notation.
- Continue to expand music vocabulary to include and understand phrasing, crescendo, decrescendo, tempo, etc.
- Sing partner song and sing and play instruments in response to cues of a conductor.
- Expand knowledge of structure of music and musical ideas.
- Continue public performances and assemblies.

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The second grade student will:

**Language:**
- Use language to make oral presentations and complete retellings of stories, remaining on topic, demonstrating correct sequence, and using appropriate details.
- Actively engage in listening, activate prior knowledge, and follow agreed upon rules when participating in class discussions.
- Extend vocabulary, determine word meanings, and identify antonyms, synonyms, homonyms, compound words, and contractions.
- Demonstrate an understanding of four parts of speech: nouns, pronouns, verbs, and adjectives.
- Begin to use a dictionary and other reference books.
- Use Standard English conventions correctly, including periods, question marks, exclamation points, apostrophes in contractions and possessives, subject/verb agreement, and grammar.
- Increase use of correct standard spelling.

**Reading and Literature:**
- Identify main idea and supporting details of a story.
- Summarize, draw conclusions, make inferences and compare and contrast what has been written, heard or read.
- Provide evidence from a story to demonstrate understanding of theme, character, and plot.
- Explore different genres of literature, such as poetry, prose, plays, fiction, and non-fiction, employing strategies for reading each effectively.
- Monitor for meaning, demonstrating interaction with print.
- Connect what is read to what is already known.

**Composition:**
- Write two paragraphs using appropriate topic development and standard conventions in response to a personal narrative prompt.
- Write using a variety of forms for different purposes including friendly letters, personal narratives, poems, stories, journal entries, reports, and responses to literature, answers to open-response questions, informational writing, and persuasive writing.
- Print legibly in manuscript, using proper letter formation, size, and spacing.
- Follow the writing process, using graphic organizers for pre-writing/planning, and engaging in drafting, assessing, revising, editing, and publishing.
- Write a tall tale.

**Mathematics**

The second grade student will:

**Operations and Algebraic Thinking**
- Represent and solve problems involving addition and subtraction.
- Add and subtract within 20.
- Work with equal groups of objects to gain foundations for multiplication.

**Number and Operations in Base Ten**
- Understand place value.
- Use place value understanding and properties of operations to add and subtract.

**Measurement and Data**
- Measure and estimate lengths in standard units.
- Relate addition and subtraction to length.
- Work with time and money.
- Represent and interpret data.

**Geometry**
- Reason with shapes and their attributes.

**Health Dynamics**

The second grade student will:
- Demonstrate responsible personal and social conduct used in physical activity settings.
- Perform rhythm routines including dance to demonstrate fundamental movement skills.
- Be introduced to basic health and hygiene habits.
- Develop methods for handling personal stress in a positive way.
- Develop qualities of integrity leadership, and honesty.

**Science and Technology**

The second grade student will:
- See the big picture of science as it relates to life, earth, physics, chemistry and engineering.
- Build models to construct their understanding of the solar system and the seasons.
- Dissect flowers and owl pellets to understand the plant life cycle and predator-prey relationships.
- Build devices to test forces and balance.

**Unit Topics are:**
- Our Solar System
- Sun and Seasons
- Living Earth
- Flower Power
- Grow a Garden
- Predator and Prey
- Moth vs. Butterfly
- Forces
- Simple Circuits
- Inventions
- Balancing Boats
- Walls and Dams

**Social Studies**

The second grade student will:
- Study world and United States history, geography, economics, and government by learning more about who Americans are and where they came from.
- Explore their own family’s history and listen to or read a variety of teacher- or student-selected stories about: distinctive individuals, peoples, achievements, customs, events, places, or landmarks from long ago and around the world.
- Identify producers, consumers, buyers, and sellers in their own communities.
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Art

The third grade student will:
- Understand the art elements (line, shape, color, texture, space, form).
- Integrate content, ideas, and processes through interdisciplinary experiences.
- Explore the properties of color, hue, shade, and tint.
- Continue to develop manipulative skills using 3-D materials.
- Recognize the art principles: balance, emphasis.
- Develop a vocabulary based on the elements and principles of art in order to discuss their own artwork and the work of others.
- Identify his or her artistic styles of specific noteworthy master artists.

Music

The third grade student will:
- Improvise simple rhythm accompaniments to familiar songs.
- Perform in groups vocally or with instruments following the direction of a conductor.
- Use familiar lyrics or poems to create simple melodies.
- Sing partner songs, rounds, and double rounds.
- Continue school assemblies and public performances.

Health Dynamics

The third grade student will:
- Apply movement concepts including direction, balance, and range to extend versatility and improve physical performance.
- Use a variety of skills including throwing, catching, striking, walking, running, skipping, hopping, galloping, sliding, jumping, leaping, twisting, balancing, and extending as individuals and teams.
- Demonstrate responsible personal and social conduct used in physical activity settings.
- Apply principles of health-enhancing physical fitness to develop a physically active lifestyle.
- Understand that physical activities provide opportunity for enjoyment, challenge, and self-expression.
The third grade student will:

**Language:**
- Use language to make oral presentations, recognizing audience and purpose, making proper eye contact, using good enunciation and volume.
- Listen, evaluate, activate prior knowledge, and make judgments in group discussions.
- Recognize and use common prefixes, suffixes, and root words.
- Identify and use simple declarative, interrogative, exclamatory, and imperative sentences.
- Use a dictionary and other reference books to locate spelling, meaning and pronunciation of words, and appropriately extend vocabulary knowledge.
- Use Standard English conventions correctly, including capitalization, punctuation, subject-verb agreement, and spelling.

**Reading and Literature**
- Understand the main idea of a story.
- Monitor for meaning, demonstrating interaction with print.
- Summarize, and compare/contrast information from different sources.
- Read and analyze what is read, using textual evidence to demonstrate understanding of theme, character, plot, and setting.
- Explore various forms and patterns in poetry.
- Make connections, draw inferences, and have conversations that extend the meaning of text and relate it to the student.
- Identify and understand different genres of literature.
- Experience different cultures through literature.

**Composition**
- Follow the writing process, using graphic organizers for pre-writing/planning, and engaging in drafting, assessing, revising, editing, and publishing.
- Write for many different purposes and audiences.
- Write clear answers to open-response questions.
- Use rubrics to self-assess the quality of writing and to make judgments.
- Begin to use cursive handwriting.
- Write a three paragraph composition remaining on topic and using Standard English conventions in response to a personal narrative prompt.
- Write a fairy/folk tale.

**Mathematics**

**The third grade student will:**

**Operations and Algebraic Thinking**
- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationship between multiplication and division.
- Multiply and divide within 100.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.

**Number and Operations in Base Ten**
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

**Number and Operations—Fractions**
- Develop understanding of fractions as numbers.

**Measurement and Data**
- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Represent and interpret data.
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

**Geometry**
- Reason with shapes and their attributes.

**Science and Technology**

**The third grade student will:**

- Gather data using instruments such as pan balances and graduated cylinders and use these measurements to draw conclusions.
- Unit Topics are:
  - Understanding Atoms
  - Gathering Data
  - Satellites
  - Anatomy of Earth
  - Weather and Water
  - Classification
  - The Food Chain
  - Insect Life Cycles
  - Introducing Energy
  - Electricity
  - Magnetism
  - Introducing Sound
  - Introducing Light

**Social Studies**

**The third grade student will:**

- Using local historic sites, historical societies, and museums, third graders learn about the history of Massachusetts from the time of the arrival of the Pilgrims.
- Learn the history of their own cities and towns and about famous people and events in Massachusetts’ history.
- Read biographies of prominent Massachusetts people in science, technology, the arts, business, education, or political leadership in order to learn how they contributed to Massachusetts history.
Art

The fourth grade student will:
- Understand and use the art elements: line, shape, color, texture, space, form, value.
- Understand the properties of color, hue, shade, tint, and intensity.
- Understand the design principles: contrast, balance, rhythm, emphasis, unity, variety.
- Discuss the aspects of a particular work of art and identify its style, period, and culture.
- Combine art with other disciplines in order to translate abstract ideas into concrete examples.
- Create art work in a variety of 2-D and 3-D materials to express feelings and ideas.

Music

The fourth grade student will:
- Sing in tune, matching pitch, accurate rhythm, and steady beat.
- Sing in two parts or more through the use of partner songs, rounds and double rounds.
- Accompany songs with rhythm and Orff instruments.
- Interpret music through movement and visual aids.
- Continue assemblies and performances.
- Begin formal instruction with string and band.

Health and Physical Education

The fourth grade student will:
- Further enhance cardiovascular fitness and object control skills through a variety of activities.
- Develop quality communication skills to enhance positive relationships within the home and school environment.
- Describe factors, such as character traits and life events, which can strengthen families.
- Practice different methods and processes associated with making good decisions and responding to peer-pressure.
- Understand and practice assertive behavior, refusal skills, and consequences.
The fourth grade student will:

**Mathematics**

### Operations and Algebraic Thinking
- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

### Number and Operations in Base Ten
- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

### Number and Operations—Fractions
- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

### Measurement and Data
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.
- Geometric measurement: Understand concepts of angle and measure angles.

### Geometry
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

**Science and Technology**

The fourth grade student will:
- Move toward mastery of the Scientific Method and Engineering Design Process.
- Use laboratory notebooks to record scientific reasoning from question to conclusion.
- Unit Topics are:
  - Becoming a Scientist
  - Measuring Matter
  - The Fossil Record
  - Digging into the Soil
  - Local Climates
  - Living Cells
  - Introducing Heredity
  - Plant and Animal Life Cycles
  - Adapting to Change
  - Energy Transforms
  - Types of Electricity
  - Magnetic Fields
  - Sound Waves
  - Light and Color
  - Simple Machines

**Social Studies**

The fourth grade student will:
- Study the geography and people of the United States today.
- Learn geography by addressing standards that emphasize political and physical geography and embed five major concepts: location, place, and human interaction with the environment, movement, and regions.
- Learn about the geography and people of contemporary Mexico and Canada.
**Art**

The fifth grade student will:
- Demonstrate an awareness of color scheme as it applies to color theory.
- Apply the elements of line, shape, color, value, texture, and form to various 2-D and 3-D processes.
- Further develop an understanding of design principles such as balance, rhythm, emphasis, unity, variety, and contrast.
- Express personal responses to subject matter, materials, techniques, and design elements in both 2-D and 3-D artworks.
- Understand important standards for a completed artwork and be able to use art vocabulary to express these criteria.
- Discuss the aspects of a particular work and period of art, identify the style and culture.

**Music**

The fifth grade student will:
- Apply musical concepts of melody, rhythm, harmony, dynamics, tempo, and style.
- Apply music theory through the use of musical instruments and reading the printed score.
- Respond to music through a wide variety of listening experiences that are integrated with other academic areas.

**Health Dynamics**

The fifth grade student will:
- Develop teamwork skills and the ability to work with others during a variety of activities.
- Develop a plan/strategy within a team environment to help complete a task.
- Improve cardiovascular and muscular endurance through fitness routines.
- Understand the dangers associated with bullying and practice methods to becoming an effective mediator within conflicts.
- Learning effective methods to cope with frustration and anger.

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LYNN PUBLIC SCHOOLS  
Fifth Grade Curriculum Guide
The fifth grade student will:

**Language**
- Use language to interpret text, including both literature and content areas.
- Use an extended vocabulary, identify meanings, use antonyms, synonyms, homographs, homophones, contractions, and compound words, and identify and use common prefixes, suffixes, and root words.
- Use a variety of reference sources to determine meaning, usage, and interpretation.
- Identify and refine use of eight parts of speech.
- Refine knowledge and use of Standard English conventions, including colons and changing word order to improve sentence meaning.

**Reading and Literature**
- Use a variety of comprehension strategies, including activating prior knowledge, making predictions, identifying main idea, supporting details and theme, comparing/contrasting, making inferences, identifying cause and effect, identifying and analyzing figurative language, and synthesizing what is read.
- Identify and analyze characteristics of various genres, including fiction, nonfiction, poetry, prose, and drama, and including works from different cultures.
- Demonstrate an understanding of characterization, setting, plot, and theme, providing evidence from the story to support conclusions.
- Understand various literary elements such as simile, metaphor, hyperbole, alliteration, and onomatopoeia.
- Apply reading strategies to non-fiction and content area material.

**Composition**
- Follow the writing process, using graphic organizers for prewriting and planning, and engaging in drafting, assessing, revising, editing, and publishing.
- Write a three to five paragraph composition, remaining on topic and using Standard English conventions.
- Use a variety of genres to write for different audiences and purposes, including informational, narrative, persuasive, literary and open-ended response writing.
- Locate information from a variety of sources for research/presentations.
- Use prescribed criteria in a scoring rubric to self-assess work.
- Identify and demonstrate informal and formal English language.
- Use the elements of setting, characterization, and plot in writing.

**Mathematics**

The fifth grade student will:

**Operations and Algebraic Thinking**
- Write and interpret numerical expressions.
- Analyze patterns and relationships.

**Number and Operations in Base Ten**
- Understand the place value system.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.

**Number and Operations—Fractions**
- Use equivalent fractions as a strategy to add and subtract fractions.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

**The Number System**
- Gain familiarity with concepts of positive and negative integers.

**Measurement and Data**
- Convert like measurement units within a given measurement system.
- Represent and interpret data.
- Geometric measurement: Understand concepts of volume and relate volume to multiplication and to addition.

**Geometry**
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Classify two-dimensional figures into categories based on their properties.

**Science and Technology**

The fifth grade student will:

- Design and carry out experiments.
- Reach conclusions using the Scientific Method.
- Revise prototypes using the Engineering Design Process.

**Unit Topics are:**
- Buoyancy
- Rocks and Minerals
- Water
- Hurricanes
- Growing Cells
- Conservation
- Evolution
- Electrical Energy
- Generating Power
- Good Vibrations
- Light Waves and Lenses
- Complex Machines
- Designing Roller Coasters

**Social Studies**

The fifth grade student will:

- Study the major pre-Columbian civilizations in the New World; the 15th and 16th century European explorations around the world, in the western hemisphere, and in North America in particular; the earliest settlements in North America; and the political, economic, and social development of the English colonies in the 17th and 18th centuries.
- Study the early development of democratic institutions and ideas, including the ideas and events that led to the independence of the original thirteen colonies and the formation of a national government under the U.S. Constitution.

**The purpose of the grade 5 curriculum is to give students their first concentrated study of the formative years of U.S. history.**