

OVERVIEW

By creating a suitable atmosphere and selecting appropriate materials and topics, fourth-grade teachers help each student develop self-confidence, a love of learning, a sense of responsibility, and pride in their accomplishments. Students develop a sense of community and an appreciation of and respect for each other's opinions, individuality, and property.

Fourth graders have 1:1 access to Chromebooks at school. Each student receives a DCD Google Drive account where they can create, store, and organize their work. This account can be accessed at home as well. Students are expected to manage materials and complete nightly homework assignments. The teachers encourage students to become more articulate about their needs as learners. Students learn to ask questions and seek out assistance when needed. The fourth-grade program promotes community building, cooperative learning, and problem-solving. Through class meetings, written reflections, and read-alouds, students build skills of cooperation, responsibility, empathy, and self-control.

Learning continues outside of the classroom with athletics, field trips, and a learning partnership with the Dedham branch of the Animal Rescue League of Boston, which includes an annual school-wide "Fun Run" to raise money for the ARL.

LANGUAGE ARTS

Reading

The fourth-grade reading program is designed to help students develop active reading skills and an appreciation for literature. Students read from a variety of genres. Students practice reading with fluency and oral expression. Teachers conduct reading class in a small-group format. They place a strong emphasis on helping students develop comprehension and vocabulary skills. Students practice finding the main idea, making predictions, recalling details, sequencing story events, recognizing themes, making inferences, and summarizing.

Students demonstrate their understanding of the reading material through class discussions and written responses to comprehension questions. Through final projects students respond through written and artistic reflections for each of the novels they read. Teachers emphasize proofreading and editing skills. In addition to assigned reading, students are encouraged to spend at least 20 minutes per day at home independently reading books of their own choosing. Students may visit the classroom library or school library regularly to select reading material.

Writing

As fourth graders develop their writing skills, they focus on poetry, narrative writing, persuasive writing, nonfiction and creative writing. Fourth-grade writers follow the steps of the writing process: brainstorming, organizing, drafting, and revising their written work. They develop their understanding of sentence and paragraph structure and practice topic sentences and

concluding sentences. Students practice learning to type in fourth grade, and they use their Chromebooks to publish most fourth-grade writing assignments.

Mechanics, Spelling & Vocabulary

Students learn writing mechanics through explicit instruction and practice proofreading and editing of their own writing. Topics covered include punctuation, capitalization, spelling rules, and parts of speech. The fourth-grade spelling program focuses on identifying spelling rules, generalizations, and patterns. In addition, students learn new vocabulary words through the rich texts they experience in reading class.

MATH

In fourth grade, we want our students to feel both competent and confident in their math skills. We encourage this by providing opportunities for hands-on learning, identifying patterns, having our students make observations and engage in substantive conversations, and analyzing multiple pathways to solutions. We use the Investigations program as our foundation, and supplement it with engaging lessons and challenges.

Numbers and Operations

In fourth grade, students learn to understand and work with multiples, factors, and prime numbers. They explore how numbers can be broken down into their building blocks, recognize patterns in multiplication, and examine the relationship between multiplication and division using story problems. Strategies for solving multiplication and division problems with two and three digit numbers are practiced and refined.

Rational Numbers

Students build their understanding of the meaning of rational numbers as they work with halves, thirds, fourths, fifths, sixths, eighths, tenths, twelfths, and hundredths. As students gain familiarity with fractions, they begin to compare and find equivalents. They are introduced to decimals and learn that tenths and hundredths can be written with both fraction and decimal notation.

Geometry

Students draw and identify lines and angles, including parallel and perpendicular lines. They describe and classify polygons based on their angles and sides. Students also identify lines of symmetry and mirror symmetry in polygons.

Measurement

Students collect and analyze data to compare two groups. They create line plots using measurement data that includes fractions and represents two data sets visually. They also

measure angles using reasoning and a protractor, and apply their understanding of perimeter and area by working with rectangles.

Analyzing Data and Rules

Students model mathematical relationships where two quantities are related in predictable ways. They learn to analyze these patterns and recognize how the additive part of the context and the multiplicative part define the relationship between the two quantities. Students use pictures, tables, and mathematical expressions to demonstrate these relationships.

SOCIAL STUDIES

Fourth graders learn about historical and current events, influential people, and causes and effects of growth and movement in the United States. Through inquiry, exploration, discussion, writing, and completion of projects. The fourth-grade social studies curriculum serves as a means to help students better understand the modern and multifaceted world they live in.

SCIENCE

The fourth-grade science curriculum focuses on the human body, adaptations, and biodiversity. Hands-on activities, experiments, or engineering projects occur during most classes. Students maintain a notebook in which they document their predictions, observations, and inferences when experimenting and their thought processes when devising a solution to a problem using the engineering design process. Students sometimes use Chromebooks to research, document their work, and demonstrate what they have learned.

SPANISH

Spanish in the 4th grade is an on ramp that builds excitement and basic understanding of phonics, phonemes, pronunciation, vocabulary, and provides opportunities for engaging project-based learning. Generally, our aim is to expose students to the Spanish alphabet, a selection of high frequency regular and irregular verbs, nouns and adjectives. We also learn body parts combined with classes to teach the basic steps of salsa dancing, cardinal directions and telling left from right, weather, numbers and colors. Students in 4th grade have Spanish one time per week.

LATIN

Latin in 4th grade is an introductory course that meets once a week. Students learn vocabulary and learn to read simple sentence structures through a book which follows a family in the Roman Empire. There are also supplemental lessons, such as Roman numerals, days of the week, Roman gods, and more. The class also learns about ancient Roman culture and history.

LIBRARY

The fourth-grade library curriculum continues to focus on information literacy skills. We begin each year with digital citizenship discussions. The goal of these discussions is to raise student awareness of their digital life and provide opportunities to discuss what to do when something goes wrong. Students work on projects where they examine nonfiction works, and various online encyclopedias to inform their research. They learn how Google search works and practice keyword searching as part of their study. Throughout the year students will participate in “Book Tastings” where students will be encouraged to explore curated collections of books based on themes. The goal with “Book Tastings” is to have students explore sections of the library and genres they might not normally borrow from. In addition, fourth graders have the option to participate in the Massachusetts Children’s Book Award program. This optional reading program is for an annual award selected by students throughout the state.

MUSIC

The fourth-grade music curriculum encompasses two separate but connected courses of Music/Band and Music/Chorus. The course encourages students to develop a familiarity with music history, note and rhythmic reading and execution, fine and gross motor skills, and to create their own original music. Fourth graders create original compositions utilizing music software. They also help create the songs for their class play, employing compositional and song-writing strategies that emphasize creating music and lyrics to fit the context of the story. Students learn through instruments, voices, manipulatives, movement, improvisation, and integration with their music curriculum. Fourth-grade students participate in the Thanksgiving and Holiday Assemblies, the Lower School Visual and Performing Arts Assembly, and their class play.

Band/Music

All Fourth graders participate in band, choosing a wind instrument to learn, and build their musicianship through instrumental ensemble work. Students will also study percussion instruments during their course of study. Participation in band fosters teamwork and ensemble listening and performance skills, allowing students to develop their skills as part of a large ensemble and gross/fine motor skills. Students learn a variety of traditional beginning band repertoire as well as experiment with simple jazz tunes and improvisation. Their music class works with the fourth-grade classroom curriculum to collaboratively complement major units of study. Students will integrate music technology platforms and MIDI instruments for units in composition and recording their own instrumental work. The Grade Four Band performs each year at the Winter Assembly, the Lower School Visual and Performing Arts Assembly, and in their class play (vocal). Band meets one of every three arts days.

Music/Chorus

All Fourth graders participate in chorus and build their musicianship through choral work. Students practice two- and three-part choral pieces that center around seasonal, cultural, and historical themes or concepts. Singing in an ensemble fosters teamwork and allows students to practice their musical skills while being part of an ensemble. The Lower School Chorus performs at the Thanksgiving Assembly, the Holiday Assembly, and the Lower School Visual and Performing Arts Assembly. Chorus meets one of every three arts days.

VISUAL ART

In fourth grade, students continue to develop their foundation of skills and vocabulary to create and discuss works of art. The lessons garnered during the creative process are more important than the final product. Young artists have the opportunity to think critically, take risks, and be self-reliant problem solvers. Students are nurtured and supported through periodic group discussions, through prominent display of their work, and through community-wide assemblies. The main focus of the fourth-grade year is color theory. The color wheel is used as the vehicle for understanding primary, secondary, and tertiary colors and their relationship to each other. Colors for the wheel are hand-mixed with acrylic paint. Students also create a complementary color cut and torn paper collage. They also draw from life to develop their observational and drawing skills. Fourth graders develop a deeper understanding of the structure and routines of a working studio. The studio itself is a tool, and students learn how best to utilize and care for the space and materials.

Visual art class includes art history as students study the life and work of a particular artist and create a piece in that artist's style. Leading up to Dr. Martin Luther King Jr. Service Day, students view and discuss William Henry Johnson's *Fighters for Freedom* series. Portraits include Booker T. Washington, Harriet Tubman, Marian Anderson, Abraham Lincoln, John Brown, Frederick Douglass and George Washington Carver. They also watch Marian Anderson perform *My Country 'Tis of Thee* and Dr. King's *I Have a Dream* speech. The subject matter in

the *Fighters for Freedom* series is complex, and as students mature, they are able to build on the previous year's discussion and garner new insights and understanding.

WOODWORKING

The fourth-grade year in woodworking marks the beginning of more sophisticated and challenging work. This is a year that offers tremendous potential for growth and discovery which is discussed at length at the start of the year. Projects for the year involve multiple steps, and students often work in small teams. This “team approach” gives the fourth graders the opportunity to work closely with another classmate, pooling talents and experiences as they assist and teach each other. In addition to guided group projects, students will have an opportunity to design and craft their own individual project. During the fourth-grade year, students cultivate a solid understanding of concepts, terms, techniques, and a working vocabulary. Additionally, students continue to work toward an understanding of “process” as they advance their project work. Woodworking classes meet every other day for half the year.

DRAMA

Once a year, DCD's drama teacher writes a theatrical play expressly for the fourth-grade students. In fourth grade, all students have a minimum of eleven lines, but some roles will have many more. By fourth grade, students will read the play about a month before the performance and will select about six to eight parts (depending on the size of the class) that they would like to play. Students are then given one of their choices. In addition to giving them a sense of ownership of the play, it also allows them to select a role with more or fewer lines, depending on their comfort level. Students are encouraged to sign up for a larger role if they have not had one before. Students in fourth grade learn how to develop their timing on stage. Their lines are more complex, and there are usually exits and entrances in the middle of a scene. This requires the students to be active listeners while waiting for their cues off stage. Their acting skills develop as they learn how to enter as a character in the middle of a scene, and create a back story by using body language and facial expressions.

The goals of the fourth-grade play are for all students to develop sophisticated comic or dramatic timing on stage. They are also encouraged to improvise during exits and entrances. Students at this age are learning how to take on leadership roles backstage. Drama classes meet for approximately 15 rehearsals prior to performing the class play.

PHYSICAL EDUCATION

Fourth-grade Physical Education class introduces students to more advanced strategies and a greater amount of gameplay in a wide range of team sports. PE units include field hockey, soccer, basketball, floor hockey, badminton, volleyball, gymnastics, baseball, cooperative games, softball, and lacrosse. Exposure to a wide variety of sports provides students the opportunity to build coordination and strength through the practice of an extensive range of movement. Teachers actively promote sportsmanship, teamwork, and fair play. PE also provides students an opportunity to try sports which they may choose to continue playing in middle school. Students have Physical Education classes four times per week.

SOCIAL-EMOTIONAL LEARNING

Fourth-grade students participate in teacher-led discussions and activities designed to support social-emotional development in the classroom. Students practice essential skills through movement, breathing, storytelling, partner activities, and group discussions.