

GRADE 5
CURRICULUM GUIDE



COLCHESTER SCHOOLS

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Dear Parents:

We hope you find this Curriculum Guide helpful. Over the past two years, members of the Strategic Planning Committee and Community Involvement Forums have expressed a desire for a curriculum guide for parents. The teacher teams working on these guides gathered information from the Colchester Curriculum Documents, which are based on state standards, and put them into an overview for each grade level. We will continue to refine the document and add a comprehensive parent support piece in future years.

We hope that this overview will assist you when you have conversations about classroom work with your child's teacher, and as you reinforce learning concepts at home. We welcome your feedback as you use these Parent Curriculum Guides throughout the year. The Colchester faculty and administration appreciate your working with us to ensure that your children's education is an effective and positive experience.

Best wishes for a successful school year.

Yours truly,

Colchester Faculty and Administrators

LANGUAGE ARTS

By fifth grade, students use literacy skills to learn new information. Students continue developing skills as critical thinkers, good writers, and articulate speakers. Reading instruction in grade 5 includes whole group instruction, guided reading groups and independent reading. Students will be exposed to both fiction and non-fiction texts.

By the end of fifth grade we expect students to be able to:

Reading

Choose “just right” books.

Maintain fluency.

Retell, summarize, and sequence.

Identify topic, main idea, supporting details.

Make predictions, inferences, and comparisons.

Identify organizational patterns.

Examine and analyze characters and story structure in fiction.

Recognize conventions and organizational patterns of non-fiction text.

Increase vocabulary.

Interpret and analyze point of view, cause and effect, and conflicts and resolution.

Draw and support conclusions with evidence.

Explore and respond critically to a variety of literature.

Analyze and evaluate Author’s Craft.

Apply strategies during reading and test preparation.

Make text-text, text-self, text-world connections.

Develop and interpret a variety of cultural elements.

Reflect on growth and experience as readers.

Recognize a variety of literary devices (similes, metaphors, personification, onomatopoeia)

Writing

Effectively communicate ideas.

Organize ideas.

Demonstrate fluency.

Utilize transitional words and phrases.

Implement grammar usage rules (such as subject/verb agreement, verb tense, pronoun reference).

Implement the process of writing which includes pre-writing, drafting, revising, editing, and publishing.

Prewriting – brainstorm and develop ideas.

Drafting – use the prewriting plan to develop a piece.

Revising – reread and make changes to draft.

Editing – use resources to identify and correct errors in spelling, punctuation, capitalization, grammar, and usage.

Publishing – final product.

Reflecting – self-assessment, set goals for writing.

Write using a variety of formats such as expository, narrative, descriptive, persuasive, and poetic.

Use a variety of literary devices (similes, metaphors, personification, onomatopoeia)

Evaluate/reflect on their own writing.

Oral Communication

Communicate ideas using clarity, voice, and fluency.

Participate in group discussions.

Make oral presentations with an awareness of audience.

MATHEMATICS

Math develops students' ability to reason and solve problems. In math, students have the opportunity to apply basic mathematical skills and concepts and make connections to real world problems across all disciplines. Students learn reasoning and effective communication of solutions and methods. Students become independent thinkers and share responsibility for their learning as they build new math knowledge.

By the end of fifth grade, we expect students to be able to:

Numerical and Proportional Reasoning

Compare, order and round whole numbers, fractions and decimals.

Convert decimals (tenths and hundredths) to equivalent fractions and percents.

Use rectangular arrays to identify factor pairs and to classify numbers as prime, composite and square.

Demonstrate an understanding of fractions.

Add and subtract fractions, decimals, and mixed numbers with like denominators and reduce to lowest terms

Add, subtract, and use estimation to solve problems.

Multiply and divide two and three digit numbers by one and 2 digit numbers.

Use estimation to predict results and decide whether answers are reasonable involving whole numbers, fractions, and decimals.

Geometry and Measurement

Draw, analyze, compare and classify polygons.

Estimate and measure using customary and metric units in the area of length, area, weight, and capacity.

Find perimeter and area of squares and rectangles.

Solve and explain problems involving elapsed time and conversion of measures of time.

Patterns and Algebraic Reasoning

Describe mathematical relationships and situations using symbols and number sentences.

Identify and explain missing terms in patterns.

Data and Statistics

Explain, probability, and fairness including justifying answers.

Create and draw reasonable conclusions from data in tables, pictographs, line, bar, circle, stem and leaf, line plots.

Identify possible outcomes of events.

Communication, Application, and Representation

Use mathematical language correctly.

Organize and communicate math thinking effectively.

Problem Solving and Reasoning

Write and solve multi-step story problems involving whole numbers, fractions, and decimals, including money amounts.

Create and use formulas to solve problems.

SCIENCE

Science prepares students to be confident critical thinkers who are equipped with the skills needed to access, understand, evaluate, and apply information in various contexts.

By the end of fifth grade, we expect students to be able to:

Describe how light is absorbed or reflected.

Describe the structure of the human eye and compare it to a camera.

Explain the cause of day and night based on the earth's rotation on its axis.

Describe the monthly changes in the appearance of the moon, based on the moon's orbit.

Describe the use of instruments such as glasses, magnifiers, periscopes, and telescopes.

Explain that sound is produced by vibrating objects and how it is transmitted.

Describe how sound is reflected or absorbed.

Explain what affects pitch and loudness.

SOCIAL STUDIES

Social Studies prepares students to understand the world around them as well as events in the past so that they can become good citizens. As they explore their country and world, students learn about geography, United States history, cultural change, and the impact these have on their lives today and in the future.

By the end of fifth grade, we expect students to be able to:

Describe the geography and regions of the USA.

Compare and contrast Native American tribes and the way they lived before European contact.

Explain how the Age of Exploration changed the world.

Compare and contrast life in Sturbridge Village, Massachusetts in 1830 to modern times.

Understand the events that led to the creation of the 13 colonies.

Understand the causes and impact of slavery in America and the dilemmas Africans faced during the American slave trade.

Understand the culture that evolved from slavery.

Identify the major causes and events that led to the writing of the Declaration of Independence and the Revolutionary War.

MUSIC

In grade 5 students will perform a varied repertoire of music by singing and playing instruments. They will create music through improvising melodies and accompaniments and compose music in a variety of styles. Students will read and notate music, listen to, analyze and describe music.

By the end of fifth grade, we expect students to be able to:

Perform a varied repertoire of music by singing and playing instruments.

Create music through improvising melodies and accompaniments.

Compose music in a variety of styles.

Read and notate music.

Listen to, analyze, and describe music.

Intermediate Band Grade 5

By the end of fifth grade we expect students in band to know and be able to:

Develop specific instrument skills such as instrument tendencies, construction, proper position, posture, embouchure and beginning notes (names). [Percussion students will learn about the different instruments, necessary equipment accessories for them.]

Understand their role individually, in their sections, and in the large group.

Correct mistakes in note errors and basic counting rhythms.

Make adjustments from directions of the conductor.

Chorus Grade 5

By the end of fifth grade we expect students in chorus to know and be able to:

Use previous knowledge and be part of a larger musical group.

Sing alone and in various groups reading notations and in pitch a varied repertoire of songs.

Sing independently on pitch and in rhythm maintaining a steady tempo.

Sing in a group blending with others, matching dynamic levels and respond to clues of the conductor.

Use appropriate musical terms.

Use notation to communicate music.

HEALTHY AND BALANCED LIVING

Jack Jackter Intermediate Schools Physical and Health Education program promotes a variety of activities that will lead to a healthy life style. Emphasis will be placed on health and fitness goals needed for the enhancement of intellectual pursuits and interests of all students. The Physical and Health education program is based on the concept of providing differentiated instruction for all students. Our program will foster the growth and development of the individual child and provide the opportunity to pursue healthy and active lifestyle.

By the end of fifth grade, we expect students to be able to:

Have the skills to perform a variety of physical activities.

Be physically fit.

Participate regularly in physical activity.

Recognize the implications of and benefits from involvement in physical activities.

Understand and demonstrate the value of physical activity and its contributions to a healthful lifestyle.

Make informed decisions about their health.

Practice life skills and have character traits for positive health behaviors.

Solve health problems and think critically.

TECHNOLOGY SKILLS

Technology skills class prepares students to demonstrate knowledge, skills, and understanding of technology concepts by using technology resources to collect and analyze data, interpret results, and communicate findings to maximize student learning.

By the end of fifth grade, we expect students to be able to:

Be able to recognize and troubleshoot basic operating problems.

Use appropriate keyboarding techniques (as grade-level appropriate) twenty-five words per minute.

Be able to work independently in a desktop publication and spreadsheet application

Be able to work independently to navigate, retrieve and cite information of the internet and data bases.

Understand social issues related to technology and practice legal and ethical behavior.

VISUAL ART

In fifth grade, students work with a variety of media, techniques and processes, with particular emphasis on drawing skills and creative thinking & problem-solving. They use the elements and principles of design to plan, create and refine their art, incorporating personal meaning, interdisciplinary connections, and the relationship of art to everyday life.

By the end of fifth grade, we expect students to be able to:

Recognize and use: a variety of lines including contour line; actual/implied texture; value/light source; 3-D form & space in drawings and sculpture. Create their own color palettes, including primary/secondary colors & neutral tones.

Recognize and use: contrast (shadows & highlights); proportion; perspective (atmospheric and 1-point); emphasis and unity in compositions such as still life & landscapes.

Work with a variety of media (marker, crayon, tempera, watercolor, pastel, paper mache, clay) and explore a variety of processes and techniques including: drawing, painting, printmaking, mixed media, and 3-D construction.

Create and respond to works of art based on a range of subjects and styles, including portraits/self-portraits, narrative scenes, symbols (personal, cultural/historical and universal) and works of art (including Impressionist, Post-Impressionist, Pop Art).

Reflect on, evaluate and form opinions about works of art, including stating reasons for one's ideas/opinions, orally and in writing.

LIBRARY MEDIA

Students use the library to find “just right books.” In conjunction with classroom teachers, they also research information using print and electronic sources.

By the end of fifth grade, we expect students to be able to:

Find a fiction book in the genre of their choice using the library catalog and check it out.

Use library databases and internet search engines to find information.

Evaluate information for reliability and accuracy.

Use the Dewey Decimal System to find non-fiction books.

Recommend books to their classmates.

TECHNOLOGY SKILLS

Technology skills are an important part of twenty first century learning, and students in second grade learn to use technology resources for problem solving, communication, and illustration of thoughts, ideas and stories.

By the end of fifth grade, we expect students to be able to:

- Be able to recognize and troubleshoot basic operating problems.
- Use appropriate keyboarding techniques (as grade-level appropriate) twenty-five words per minute.
- Be able to work independently in a desktop publication and spreadsheet application
- Be able to work independently to navigate, retrieve and cite information of the internet and data bases.
- Understand social issues related to technology and practice legal and ethical behavior.