

Katonah-Lewisboro School District

Curriculum Guide

Fifth Grade

2017-2018



FIFTH GRADE CURRICULUM OVERVIEW

The district curriculum is based on the current New York State Learning Standards.

English Language Arts and Literacy: K-5

The Katonah Lewisboro School District is committed to using a balanced literacy approach which includes explicit instruction and opportunities for students to develop skills and strategies in the areas of reading, writing, listening, and speaking.

Students engage in a comprehensive literacy program which includes the following components of effective instruction.

Reading Instruction	Writing Instruction
Reading Workshop <ul style="list-style-type: none">- Mini-lesson (explicit instruction includes modeling)- Independent reading- Small group instruction (strategy and comprehension lessons)- Share Read Aloud Shared Reading Word Study – vocabulary	Writing Workshop <ul style="list-style-type: none">- Mini-lesson (explicit instruction includes modeling and demonstration)- Independent writing- Conferring- Small group instruction- Share Mechanics, spelling, grammar, and punctuation

Our **reading curriculum** includes a balance of literature and nonfiction (informational text). Students read daily to improve their fluency, comprehension, and stamina. The level of text complexity increases throughout the K-5 years, and assessments are used to match students with appropriate texts. Additionally, students are taught how to self-select texts for identified purposes and enjoyment. Explicit instruction focuses on foundational skills, fluency, and comprehension.

The **writing curriculum** includes three main types of writing: narrative, informational, and opinion. Students write daily to improve their stamina, volume, and craft. Writing occurs across the curriculum and for a variety of purposes. Students engage in both the writing process and on-demand experiences.

Speaking and listening are also important components of the literacy program. Students are taught how to effectively communicate with each other, engage in opportunities to think critically, and talk with each other about content, strategies, and original ideas.

Fifth Grade:Students will read a range of high-quality, increasingly challenging fiction and nonfiction texts from diverse cultures and time periods. Building knowledge about subjects through research projects and responding analytically to literary and informational sources are essential to continued success. Children will write stories and essays that are several paragraphs long. By devoting significant time and effort to producing numerous written pieces over short and extended timeframes throughout the year, they will gain control over standard conventions and mechanics, language and vocabulary.

Wordly Wise provides direct academic vocabulary instruction, and this program includes word lists and definitions that illustrate the meaning of words in context along with differentiated passages. The lessons contain several exercises that reinforce learning by teaching students to use words precisely in a variety of situations. The students learn information on correct usage, interesting word histories, and parts of speech.

A sample of what your child will be working on in fifth grade includes:

- Summarizing the key details of literary and informational texts, including their themes or main ideas
- Applying foundational skills, such as fluency, and word solving, that are required to read complex nonfiction
- Integrating information from several print and digital sources to answer questions and solve problems
- Engaging in a writing unit of study: *The Research-Based Argument Essay*: Fifth-graders learn to build powerful arguments that convincingly balance evidence and analysis to persuade readers to action
- Engaging in a writing unit of study: *Literary Essay: Opening Texts and Seeing More*: Students learn to grow ideas, use evidence to craft and support a thesis statement using the writing process, and transfer and apply essay writing to prompts and relevant experiences
- Engaging in a writing unit of study: *Narrative Craft*: Student writers purposefully craft the angling of their significant stories to highlight themes and central meanings and use mentor texts to parallel the craft moves of published authors
- Coming to classroom discussions prepared, then engaging fully and thoughtfully with others
- Building knowledge of academic words with an emphasis on those that signal a contrast in ideas or logical relationships, such as *on the other hand*, *similarly*, and *therefore*
- Producing writing on the computer

MATHEMATICS

The Katonah Lewisboro School District has adopted the hands-on and minds-on K-6 Math Curriculum enVisionmath2.0 as the instructional resource to use within our math workshop model. Students explore grade level concepts with engaging materials, manipulatives, videos, online access and interdisciplinary activities that support student learning. The program is organized to promote focus and coherence each day. Assessments provide meaningful feedback to support student learning. The comprehensive program focuses on Common Core Clusters, develops understanding, and most importantly, connects mathematical content and processes. Learning is also supported through small group and collaborative activities.

In fifth grade students will understand the place value system and will perform operations with multi-digit whole numbers and with decimals to the hundredths. Students will use equivalent fractions as a strategy to add and subtract fractions. They will also apply and extend previous understandings of multiplication and division to multiply and divide fractions. Students will understand concepts of volume and relate volume to multiplication and division. Students will convert like measurement units within a given measurement system. Students will interpret numerical expressions and analyze patterns and relationships. The Common Core Domains covered in grade five are Operations and Algebraic Thinking, Number and Operations in Base Ten, Number and Operations in Fractions, Measurement and Data, and Geometry.

The Common Core Learning Standards focus on the Mathematical Practices listed below:

- **Make sense of problems and persevere in solving them**
- **Reason abstractly and quantitatively**
- **Construct viable arguments and critique the reasoning of others**
- **Model with mathematics**
- **Use appropriate tools strategically**
- **Attend to precision**
- **Look for and make use of structure**
- **Look for and express regularity in repeated reasoning**

SCIENCE

The Science and Technology Concepts Program (STC) was adopted in the summer of 2012. STC was developed by scientists and experienced educators working with the National Science Resources Center (NSRC). The NSRC was established by the National Academies and the Smithsonian Institution. The STC program is aligned with National and State Standards for Science instruction.

The STC program is inquiry based. Questions are asked of students, and some questions are crafted by students as they explore and learn. Students independently and cooperatively work to conduct investigations, make predictions, record data, reflect on and share findings, and apply the skills and knowledge they gain to new situations.

The STC program has age appropriate concepts and skills embedded in each unit. Meaningful connections are made with other disciplines, and from unit to unit and grade to grade. Units include identified resources for informational texts that are aligned with the ELA Common Core Curriculum. These informational texts, in which reading selections are relevant to the topic itself, will further help students make connections to concepts. A clear scope and sequence ensures that as students proceed through the program, they will be well grounded in the different areas of study: life science, earth science, and physical science.

Topics include:

1. Ecosystems

Students create a model ecosystem by building a terrarium and an aquarium including living and non-living elements. Throughout the unit, students observe the interactions and changes of living and non-living elements, and conduct experiments to determine the effects of pollutants on organisms and in nature.

2. Magnets and Motors

Students observe and describe the properties of magnets and electric currents. Students also construct a compass, explore the relationship between magnetism and electricity, and build and study electric motors.

3. Sound and Light

Students investigate the characteristics of sound and discover that sound travels and is caused by vibrations. Also, students learn that light reflecting from objects and entering the eye allows objects to be seen and that light also transfers energy from place to place.

SOCIAL STUDIES

Social Studies is intended to promote civic competence through the integrated study of the social sciences and humanities. Within the district's program, Social Studies provides coordinated, systematic study that draws upon all of the other disciplines as well as anchored in the New York State Common Core Standards for Literacy and Writing and the New York State Learning Standards for Social Studies. The primary purpose of the Social Studies program is to help young people develop the ability to make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world.

The five learning standards, adopted by New York State provide the overall foundation for the Social Studies Curriculum. Each unit of study is derived from and/or aligned to these standards.

Standard 1: History of the United States and New York

Students will use a variety of intellectual skills to demonstrate their understanding of major ideas, eras, themes, developments, and turning points in the history of the United States and New York.

Standard 2: World History

Students will use a variety of intellectual skills to demonstrate their understanding of major ideas, eras, themes, developments, and turning points in world history and examine the broad sweep of history from a variety of perspectives.

Standard 3: Geography

Students will use a variety of intellectual skills to demonstrate their understanding of the geography of the interdependent world in which we live—local, national, and global—including the distribution of people, places, and environments over Earth’s surface.

Standard 4: Economics

Students will use a variety of intellectual skills to demonstrate their understanding of how the United States and other societies develop economic systems and associated institutions to allocate scarce resources, how major decision-making units function in the United States and other national economies, and how an economy solves the scarcity problem through market and nonmarket mechanisms.

Standard 5: Civics, Citizenship, and Government

Students will use a variety of intellectual skills to demonstrate their understanding of the necessity for establishing governments; the governmental systems of the United States and other nations; the United States Constitution; the basic civic values of American constitutional democracy; and the roles, rights, and responsibilities of citizenship, including avenues of participation.

The fifth grade program focuses on the geography, history, economy, and culture of countries in the Western Hemisphere (United States, Canada, and Latin America). The students' work builds on and reinforces concepts that they learned studying New York State (Grade Four) and world communities (Grade Three). Comparing and contrasting our economy, history, government, and culture with other nations is an integral theme throughout the curriculum. Students refine their ability to analyze and synthesize sophisticated primary sources (e.g., historical documents, political cartoons). The social studies program is supported by the regional BOCES curriculum.

HEALTH

The health program, *The Great Body Shop*, is designed to promote behaviors that foster better health. Though students study similar topics at each grade, the depth of content and complexity of ideas vary from grade to grade. All students study growth and development, nutrition, safety, illness prevention, substance abuse prevention, personal safety, family life, and community health.

Topics include:

- First Aid Facts
- Brainstorms: Your Central Nervous Systems
- You Are What You Eat

- Love Your Lungs
- Those Crazy, Mixed-Up Emotions
- Growing Up
- Danger Ahead: The Truth About Drugs
- About Blood and AIDS
- All the Right Stuff
- Bones and Muscles: On the Move

TECHNOLOGY

Rather than being a separate program, technology is seen as a tool to enhance student learning and is, therefore, integrated throughout the curriculum. Students have access to technology tools in the classroom, library media center, and computer lab.

Students:

- Understand and practice responsible use of technology systems and information
- Use technology tools to enhance productivity and creativity
- Use a variety of media formats to communicate information and ideas effectively
- Use technology resources for solving problems and making informed decisions

In addition to previously learned skills, in fifth grade students:

- Explain multimedia software terms: slide, card, text box, bullet, layout, design template, animations, graphics, audio, etc.
- Create a linear multimedia presentation incorporating text and graphics
- Present to the class using digital projection
- Explain Internet terms: browser, navigation tools, homepage, URL, www, domain, etc.

LIBRARY MEDIA

The Katonah-Lewisboro Library Media Program is designed to foster a love of reading and teach the skills that enable students to become effective and efficient users and producers of information. Student exploration of technology for learning and information is a key component of the library curriculum. The library media program integrates skills into all content areas at each grade level. These skills are taught in collaboration with the classroom teacher in the context of the curriculum. The three main areas of emphasis in the library media program are:

The Information Problem-Solving Process

- Formulate appropriate questions
- Locate applicable sources
- Analyze and evaluate information retrieved
- Synthesize learning
- Evaluate the problem-solving process
- Clearly present their findings.

Literature Appreciation

Students acquire an appreciation of a wide range of literature in a variety of formats.

Technology

Students develop the ability to use the tools necessary to access and communicate information.

Fifth grade students:

- Use and understand the organization of library materials
- Participate in book discussions
- Use the research process to solve a problem
- Use appropriate technology to locate and collect information from a variety of sources
- Use age appropriate multi-media to create a presentation
- Demonstrate good digital citizenship

ART

The elementary art curriculum allows students to focus on a variety of drawing and painting skills and two-dimensional design in the atmosphere of a traditional *atelier* while adhering to the canon of fine arts as well as the New York State Learning Standards for Visual Arts.

Through the paradigm of art history and criticism we will focus on the elements and principles of art and design with an emphasis on composition and creative problem solving.

Across all grade levels, there is an emphasis on STREAM (Science, Technology, Research, Engineering, Art/Design, and Mathematics). From architectural design to perspective study, to color and value theory and three-dimensional design, STREAM is interwoven and is coming more to the forefront of visual art education.

Students will create projects that apply these skills to a linear (one and two-point) perspective, full color drawing; a still life painting, landscape painting and portraiture.

Students are required to complete projects and sketchbook assignments. Successful students are willing to be creative, take risks, show evidence of effort and master visual language and cognitive skills.

MUSIC

The Katonah-Lewisboro music department offers a sequential based general music curriculum at every grade level. Students will begin learning concrete musical ideas that gradually move toward the abstract as they advance through each grade level. Certain musical concepts and skills will be taught every year, and through spiraling, new skills and concepts will be introduced. In addition, students will gain an understanding of how music correlates to other academic subject areas through authentic and meaningful musical experiences.

These musical experiences are, but not limited to:

- Listening; to practice critical auditory and thinking skills essential to a successful and comprehensive musical education.
- Creating; by encouraging imagination in order to analyze and evaluate music as an expressive art form.
- Moving; to express the importance of music in a historical and cultural context.
- Reading and writing; to connect ideas with symbols, sound patterns, and other musical elements in order to promote music literacy.
- Singing and playing various instruments; to foster an appreciation of music through exciting opportunities to learn new musical and developmental skills.

Music in Grades K-5 is designed to actively engage students in the processes that constitute creation and performance in music, while developing an enthusiasm for music and an understanding of musical concepts. Our general music classes offer students the opportunity to enhance their musical knowledge through listening, creating, moving, reading and writing music, and singing and playing various instruments. The Katonah-Lewisboro music department is committed to providing all students with a comprehensive, rigorous and enjoyable music education.

PHYSICAL EDUCATION

The physical education department places a strong emphasis on physical fitness at all levels. Students are introduced to age appropriate fitness concepts and skills which are emphasized in all grade levels.

The K-5 curriculum encourages the development of the following in students:

- Physical fitness (both cardiovascular and muscular-skeletal)
- Communication skills
- Cooperation
- Risk-taking
- Safety
- Self-initiative
- Leadership
- Trust
- Self-respect, as well as respect for others