



**Oakhill Academy**  
**2017-2018**

**FIFTH GRADE**  
**Program of Studies**

MMXVII

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## SCHOOL MISSION STATEMENT

Our mission at Oakhill Academy is to provide an exemplary 21st century education with a global perspective. We provide a personalized rigorous curriculum taught by passionate, highly qualified educators. Principles of Ownership, Wisdom, Leadership, and Service (O.W.L.S.) drive all aspects of our program. Through these principles students are encouraged to think critically and creatively, and to live meaningful lives as responsible world citizens.

## CORE PRINCIPLES

**O**wnership

**W**isdom

**L**eadership

**S**ervice



## GOALS

The objective of Oakhill Academy is to achieve the highest academic standards within all grades, as well as to

- provide an appreciation for education and love of learning while emphasizing the fundamentals of how to study, gather and organize material, listen, think, and reason both independently and cooperatively.
- teach children to read with understanding in order to attain a strong foundation in english, mathematics, and science while allowing sufficient flexibility to encourage creativity within structured programs.
- introduce children to the world through history and geography with the purpose of fostering better understanding and tolerance of other cultures, while expanding global awareness.
- help children develop an appreciation of the performing and fine arts, especially art, music, drama, and dance.
- expose children to foreign languages and cultures, especially French, Chinese, and Spanish.
- introduce basic sports and skills stressing the importance of good sportsmanship and teamwork.
- advance interpersonal communication skills, which aid in the development of poise and self-confidence in social interactions.
- instruct children in the democratic governing process and foster an awareness of the child's role in family, school, community, nation, and world in order to become responsible contributing citizens of the twenty-first century.



## General Information About Our Elementary Program

Our elementary program combines core content areas such as literacy, math, science, and social studies, with co-curricular subjects like music, art, library, and physical education to provide our students with a well-balanced, developmentally appropriate set of experiences that promote creative thinking, support curiosity about learning, and develop global awareness.

Our instructional strategies are based on the best practices found around the world and encourage inquiry and critical thinking. Through careful and ongoing assessment of a child's development, teachers provide an instructional program that equips children with the skills, concepts, and tools needed for continued learning. A low teacher-to-student ratio helps to support learning.

Through the use of a the Responsive Classroom approach, teachers endeavor to foster the social skills of cooperation, assertion, responsibility, empathy, and self-control in all students.

### SPECIAL AREA CLASSES

In addition to the regular classroom subjects above, children in the elementary school attend classes with a trained specialist in the following areas.

#### ART

Students are taught the basic foundations in art production to develop the knowledge, techniques, and processes for creative expression. Emphasis on the role of art in cultures throughout history. Instruction concentrates on technique, compositions and processes of visual problem solving. Exploration of traditional and non-traditional art media including; watercolor, tempera and acrylic painting, printmaking, paper construction, collage and clay. Discovery through multidisciplinary lessons in conjunction with classroom curriculum is also a focus.



#### WORLD LANGUAGES (SPANISH, FRENCH, and CHINESE)

To succeed in the twenty-first century, today's students need to develop linguistic and cultural literacy, including academic knowledge and proficiency in English and world languages and cultures. But learning about languages and cultures is not enough; rather, our students are provided with opportunities to learn languages and cultures through participation in communicative interactions that prepare them for real-world language use and global citizenship. We believe that language learning needs to be a lifelong endeavor.



#### DRAMA

Our drama program a process-oriented class in which students rehearse and perform a scripted play. Students are introduced to acting, stage essentials, drama theory, auditioning, monologues, scene studies, objective work and improvisational skills. In addition, students learn about self-discipline and the importance of hard work, creativity and imaginative play, listening and observation skills, and self confidence. Our aim is for students to enjoy the rewards that come with working together to achieve a common goal through the study of the dramatic arts. Each year, our students will be involved in



## Elementary School Program of Studies

Oakhill Academy  
Fifth Grade



a winter production and a spring production. In addition to these shows, students will share their learning about drama in three showcases throughout the year, at the end of each trimester.

### LIBRARY

The mission of Oakhill Academy's school library is to provide an accessible, enjoyable, welcoming place for students and teachers to find books, resources, and materials that will promote a love of reading and lifelong learning.



### MUSIC



The teaching of music develops pupils' ability to listen and to appreciate a wide variety of music and to make judgments about musical quality. It encourages active involvement in different forms of music making, both individual and communal, developing a sense of group identity and togetherness. It also increases self-discipline and creativity, aesthetic sensitivity and fulfillment. Students learn technical skills and the core elements of performing, composing, appraising and listening.

### PHYSICAL EDUCATION

Through the Physical Education Program, the students perform activities that develop fine and gross muscle coordination. They learn the fundamentals of soccer, basketball, and other organized sports. Sportsmanship and teamwork are stressed at all grade levels.



## FIFTH GRADE PROGRAM DESCRIPTION

### LITERACY

The Language Arts Program has been developed to enable all students to be introduced to language as a viable form of communication, an invaluable skill, to extend thinking about themselves, others and the world, and an art to be enjoyed. Language as a skill provides the students with important tools to listen attentively, to speak fluently, to read and comprehend, to compose and to be clearly understood. The integrated approach to language arts defines the curriculum with a form of authentic, literature-based instruction. This exposure to a variety of authors vicariously opens new worlds of adventure, interesting characters, social issues, and cultures from around the world.

### Reading

At Oakhill, we aim to develop reading fluency, thinking, and independence and the ability to apply the skills they are taught in reading for pleasure as well as for constructing meaning about what they read in the content areas.

**OWNERSHIP \* WISDOM \* LEADERSHIP \* SERVICE**



Responding to literature is another integral part of our reading program. Students are encouraged to make connections about their reading by responding to what they have read in words, pictures, or discussions with other students and teachers. As students progress through the elementary grades, the elements of fiction and nonfiction texts such as setting, characterization, plot, problem and solution, glossary, captions etc. are introduced and reinforced. Students are taught to use strategies like paraphrasing, retelling, and visualization to help them make sense of what they read.

## Reading



In all grades, teachers read aloud to students as well as encourage them to read independently or with a partner. Each grade level has an extensive classroom library with a full range of books including poetry, realistic fiction, fantasy, science fiction, and classic novels. In addition, the elementary school library is well-equipped with a wide variety of reading materials. Students are encouraged to borrow materials that interest them as well as to use library as a quiet place to simply sit and read a favorite book.

**Research demonstrates that the single best predictor of reading achievement is the amount of time spent reading.**

The Reader's Workshop model is used to ensure that all students are reading books that are "just right" for them, and that they are able to advance appropriately based on their own personal stage of readiness and interest.

### Writing

Writing skills are developed at all levels of the Elementary School curriculum. Children write daily as they explore ideas, communicate their experiences, and respond to the literature they read. The Writer's Workshop approach helps students develop fluency and build confidence in writing. This model involves a mini-lesson where the teacher explicitly teaches strategies and skills related to a genre study. Students write to topics of their choice and have the opportunity to develop pieces through the full writing process of drafting, revising, editing, and then producing a final copy. Teachers are able to confer with individuals and small groups of students to help with revision and editing and provide individual instruction. The Writer's Workshop will foster high-level thinking through regular chances to synthesize, analyze, and critique while building writing independence.



### Spelling/Word Work/Grammar

Beginning in Junior Kindergarten, children are encouraged to make the connection between sounds and letters in words, and by Grade 1 they begin to make a gradual transition from invented to standard spellings through the study of some high-frequency words and common spelling patterns. In Grades 2–5, children are held accountable for correctly spelling more difficult high-frequency words, while learning to apply spelling generalizations and patterns. Children are taught how to consult a dictionary and electronic spell-checkers for spelling assistance, and final drafts of writing are edited for correct spelling. Beginning in the third grade, students engage in a more formalized study of grammar rules and usage. A comprehensive study of vocabulary includes word meanings, roots, and inflected endings.



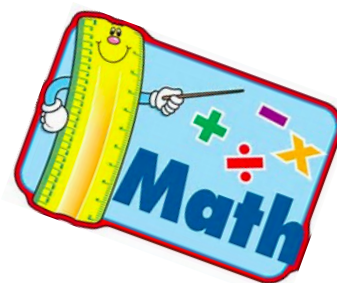




LANGUAGE ARTS UNITS OF STUDY		
READING	WRITING	WORD STUDY/GRAMMAR
Launching the Reader's Workshop	Launching the Writer's Workshop	Types of Sentences Subjects and Predicates
Interpretation Book Clubs	Narrative Craft	Main Ideas Compound Subjects and Predicates
		Verb Tenses
Tackling Complexity	Shaping Texts	Paragraphs
		Play
		Nouns
Argument and Advocacy	The Research Based Argument Essay	Independent/Dependent Clauses
		Sentence Structure
Fantasy Book Clubs	The Lens of History	Punctuation / Colons, Appositives
	Poetry	Homophones
		Review

### MATHEMATICS AND NUMERACY

The impact of technology on society and a scan of the future trends clearly indicates that instruction must go beyond the content taught and actively engage learners in demonstrating how they can select, interpret, use, and share selected information. The mathematics program at Oakhill incorporates into the curriculum both conceptual and procedural understandings of math as well as arithmetical computation, ensuring that students have a deep understanding of math concepts and are strong problem solvers who can compute well and communicate their thinking. The seven strands of mathematical concepts are introduced, developed, and enhanced at every grade level with a spiraling curriculum that builds on the skills learned in prior years. These strands include: *Computation*, *Problem Solving*, *Numbers and Operations*, *Statistics and Probability*, *Measurement*, *Algebraic Concepts*, and *Geometry*.





In addition to the content standards, the Common Core integrates 8 Standards for Mathematical Practice. These describe a variety of proficiencies that teachers should focus on developing in their students. These practices draw from both The National Council for Teachers of Mathematics (NCTM) and the National Research Council's report *Adding it Up*.

### Standards for Student Mathematical Practice

**1** **Make sense of problems and persevere in solving them.**

**Keep on going!**

**2** **Reason abstractly and quantitatively.**

Write a story for the mathematical equation

$$\frac{1}{2} \times 4$$

*Darius exercises 1/2 hour a day for 4 days. How many total hours does he exercise?*

**Think what makes sense.**

**3** **Construct viable arguments and critique the reasoning of others.**

$\frac{2}{4} = \frac{1}{2}$  I agree.

**Talk and explain.**

**4** **Model with mathematics.**

$\frac{1}{2} \times 4 = 2$  or  $4 \times \frac{1}{2} = 2$

**Show your thinking.**

**5** **Use appropriate tools strategically.**

$3 \times 2 = 6$

**Use the right tools.**

**6** **Attend to precision.**

symbol: equals (the same as)

$120 \text{ minutes} = 2 \text{ hours}$

units of measure

**Check your work.**

**7** **Look for and make use of structure.**

$8 + 4 = 12$

**See the pattern or connection.**

**8** **Look for and express regularity in repeated reasoning.**

**See the pattern or connection.**

RESA SERVICE LEADERSHIP COLLABORATION EXCELLENCE  
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 Christopher A. Wojcik, Superintendent

COMMON CORE  
 STATE STANDARDS FOR MATHEMATICS  
 GRADE 5

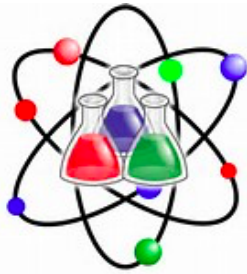
Fifth grade mathematics is about (1) developing fluency with addition and subtraction of fractions, and developing understanding of the multiplication of fractions and of division of fractions in limited cases (unit fraction divided by whole numbers and whole numbers divided by unit fractions); (2) extending division to two-digit divisors, integrating decimal fractions into the place value system and developing understanding of operations with decimals to hundredths, and developing fluency with whole number and decimal operations; and (3) developing understanding of volume.

The specific mathematical topics for fifth grade are as follows:

- Module 1: Place Value and Decimal Fractions
- Module 2: Multi-Digit Whole Number and Decimal Fraction Operations
- Module 3: Addition and Subtraction of Fractions
- Module 4: Multiplication and Division of Fractions and Decimal Fractions
- Module 5: Addition and Multiplication with Volume and Area
- Module 6: Problem Solving with the Coordinate Plane



**SCIENCE**



**Science**

The science program at Oakhill uses the inquiry method based on the FOSS Science System and correlated to appropriate standards and benchmarks. FOSS is a research-based science curriculum for grades K–8 developed at the Lawrence Hall of Science, University of California at Berkeley. The FOSS program materials are designed to meet the challenge of providing meaningful science education for all students in diverse American classrooms and to prepare them for life in the 21st century. Science is an active enterprise, made active by our human capacity to think. Scientific knowledge advances when scientists observe objects and events, think about how they relate to what is known, test their ideas in logical ways, and generate explanations that integrate the new information into the established order. Thus the scientific enterprise is both what we know (content) and how we come to know it

(process). The best way for students to appreciate the scientific enterprise, learn important scientific concepts, and develop the ability to think critically is to actively construct ideas through their own inquiries, investigations, and analyses. The FOSS program was created to engage students in these processes as they explore the natural world.

<b>FOSS GRADES 5 MODULES</b>		
<b>LIFE SCIENCE</b>	<b>PHYSICAL SCIENCE</b>	<b>EARTH SCIENCE</b>
<p><b>LIVING SYSTEMS</b></p>	<p><b>MIXTURES AND SOLUTIONS</b></p>	<p><b>WATER PLANET</b></p>
	<p><b>PHYSICS OF SOUND</b></p>	





**SOCIAL STUDIES**

The elementary social studies curriculum is designed to promote curiosity about the world in which we live. Through readings, activities, and discussions, students begin to understand about where they live, how the first civilizations began, the development of society, and the interrelatedness of the environment and human activities. At each grade level the eight key areas of social studies (standards) are addressed through an overarching theme. These standards require students not only to acquire core knowledge in history and social science, but also to develop the critical thinking skills that historians and social scientists employ to study the past and its relationship to the present. In kindergarten through grade three, students are introduced to the basic concepts of each discipline: **history**,



**geography**, **civics**, and **economics**.



Beginning at grade four, the disciplines are woven together within the standards at each grade. The critical thinking skills that support the study of history–social science are outlined in the sections for grades five, eight, and ten. To approach subject matter as historians, geographers, economists, and political scientists, students are expected to employ these skills as they master the content.

**Grade Five—United States History and Geography: Making a New Nation**

The Land and People Before Columbus

Age of Exploration

Cooperation and Conflict in North America

Settling the Colonies

Southern Colonies

Life in New England

The Middle Colonies

The Road to War

The American Revolution

The Development and Significance of the U. S. Constitution

Life in the Young Republic

The New Nation’s Westward Expansion

Landforms of the United States

Memorization of the 50 States and Capitals

