

## Lower School Course Outline

### 5<sup>th</sup> Grade

### Subject: Language Arts



#### Introduction:

The fifth grade language arts curriculum consists of written and oral activities which encourage students to become independent readers, writers, and critical and creative thinkers. Through a literature based program, students are exposed to a variety of genres in works of literature and writing activities.

#### Content:

##### Reading:

Students engage in independent reading and group discussion, thereby developing skills of comprehension, analysis, and literary criticism. Comprehension skills include sequencing, cause and effect, identifying main ideas and details, drawing conclusions, and predicting outcomes. Students' journal entries reflect their understanding of the characters, setting, plot, theme, and types of figurative language. Strong emphasis is placed on vocabulary development through the *Word Voyage* online, individualized vocabulary program

##### Writing:

Students will be given opportunities for writing with teacher guidance that strikes a balance between encouraging creativity and requiring correct use of conventions. Greater emphasis will be placed on revision and editing to produce finished products that are thoughtful, well organized and reasonably correct in grammar, mechanics and spelling. Students will be given opportunity to share their writing pieces. Types of writing pieces include reports, summaries, letters, descriptions, poetry, fiction, and personal narratives.

##### Research:

Students practice organizing and synthesizing important ideas, note-taking, summarizing, and restating information through non-fiction works. A cross-curricular research project spans at least one third of the school year (Ten Day Road Trip).

#### Materials:

*Word Voyage* Vocabulary Program, *Stargirl* (Spinelli), *City of Ember* (DuPrau), *The Watsons Go To Birmingham – 1963* (Curtis), *Wishtree* (Applegate), *Gettysburg Address* (Lincoln), and selected portions from *Omnivore's Dilemma* (Pollan), *Moonbird* (Hoose), *Knots in My Yo-Yo String* (Spinelli) and teacher read-alouds(ie. fairy tales, *Pax* (Pennypacker)

#### Evaluation:

Formal and informal assessment tools include teacher observation, student writings and journals, spelling, vocabulary and comprehension quizzes.

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### 5<sup>th</sup> Grade

#### Subject: Math

**Introduction:** In the 2017-2018 school year, FSMH adopted the Math in Focus (Singapore math) program. This section of the curriculum guide is being updated to reflect the changes.

The fifth grade math curriculum is based on the Everyday Mathematics program. Students develop a variety of successful problem-solving strategies and techniques. This curriculum is designed to prepare students for more advanced mathematics in middle school.

#### Content:

##### **Numeration:**

Students learn to identify whole numbers through the billions and decimals through the thousandths. They will also learn to identify prime, composite and square numbers.

##### **Operations and Computation:**

Students will compute 3 and 4 digit numbers and decimals using addition, subtraction, multiplication, and division. Students will compare, add, subtract, and translate fractions, decimals, and percents.

##### **Data:**

Students will collect and interpret data using graphs and basic statistics.

##### **Geometry:**

Students will compare, measure, and analyze geometric shapes. They will also measure and draw angles and identify angle relationships in a variety of geometric shapes.

##### **Measurement:**

Students will estimate and measure length, perimeter, area, volume weight, and capacity using common units of measure.

##### **Algebra:**

Students will evaluate and solve algebraic equations, open number sentences, and rate problems.

#### **Materials:**

*Everyday Math* student journals, Student Reference Book, Study Links, tool kits, and other math manipulatives as needed comprise the list of materials.

#### **Evaluation:**

Formal and informal assessment tools include teacher observation, daily journal work, student self-assessment, and periodic progress checks in the *Everyday Math* program.

## **Lower School Course Outline**

### **5<sup>th</sup> Grade**

#### **Subject: Social Studies**

##### **Introduction:**

Fifth grade social studies curriculum is designed to give students an introduction to United States geography and history. The goal is for the students to become inquisitive about the events which took place before they were born, to see and appreciate history as a story that led to where they are now.

##### **Content:**

###### **United States Geography:**

Students identify major landforms and bodies of water, study climate and natural resources. A yearlong study and review of the US states, cities, and important water/land features culminates with students mapping the United States from memory at the end of the school year.

###### **The Earliest Americans & Indigenous Peoples:**

Students study about migration of the first people to North America. Students compare and contrast the indigenous peoples - Inuits, Anasazi, Apaches, Hopi, Navajo, and Eastern Woodland Indians.

###### **Explorers:**

Topics include exploration and settlement of North America by the Spanish, French, Dutch, and English. The major concepts are the motivation of the explorers, where they explored, and the results for their countries as well as effects on indigenous people of the Americas.

###### **Trade and Slavery:**

Students study the history and influence of the Trans-Atlantic slave trade and the sugar trade on United States history.

###### **Early United States History:**

Students examine the formation of the New England, Middle Atlantic, and Southern colonies. Students study the events that led to the American Revolution which are examined as a series of cause and effect events. Students study the beginnings of the United States as a new nation, focusing on the structure of government, balance of power, and the Bill of Rights.

##### **Materials:**

*History Alive: America's Past* (Teachers' Curriculum Inst.), atlas, maps, videos, various primary source readings, and relevant trade books.

**Evaluation:**

Tests, homework assignments, State Fair project, and class participation are the basis for trimester grades.

**Lower School Course Outline**  
**5<sup>th</sup> Grade****Subject: Science****Introduction:**

The fifth grade Science curriculum introduces students to a variety of topics. Students develop and use the scientific method through weekly hands-on lab activities. Teacher-led discussions, labs, and outdoor programs immerse the student in the scientific world.

**Content:****Scientific Method:**

Using lab activities, students will learn to develop a hypothesis, organize results, and draw conclusions.

**Earth Science:**

Students learn about the formation of our solar system. Students study geology, including plate tectonics, types of weathering, and the formation of land features. Students discuss weather and climate.

**Physical Science:**

Students classify matter and identify its changes.

**Life Science:**

Students study ecology, biomes and issues affecting the environment. Students study cell structure and function and the scientific classification of all organisms. Students investigate the basic human body systems.

**Health Science:**

Students learn about hygiene, nutrition, and gender specific puberty topics.

**Materials:**

*Science* (Houghton Mifflin), laboratory equipment, research materials, computers, and demonstration objects comprise the list of materials.

**Evaluation Process:**

Unit assessment, lab reports, class participation and teacher observation form the basis for the students' grades.