

# Middle School Curriculum



These are the requirements for learners  
in grades 6, 7, 8

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## INTRODUCTION

This is a guide for Middle school learners. Learners in grades 6, 7, and 8, must do the following:

- Learners are required to take the four core courses.
- Learners are required to engage in at least one elective course in world languages level 1, or in learning how to use Microsoft Word and PowerPoint
- Learners will receive Physical Education credit for involvement in activities that are pre-approved and documented.
- Learners will receive fine arts credit for documented and pre-approved programs

The curriculum below, explains more specifically, what 6th-7th-8th grade students learn in the various courses.

## GRADE 6

### Grade 6 MATHEMATICS

- ▶ 6th Grade Math Module 1 - Whole Numbers and Patterns
- ▶ 6th Grade Math Module 2 - Introduction to Algebra
- ▶ 6th Grade Math Module 3 - Decimals
- ▶ 6th Grade Math Module 4 - Number Theory and Fractions
- ▶ 6th Grade Math Module 5 - Fraction Operations
- ▶ 6th Grade Math Module 6 - Collecting and Displaying Data

In addition to an introductory module, 6th grade math consists of the mathematics topics above. Students should have completed 5th grade mathematics.

### Grade 6 SCIENCE

- ▶ 6th Grade Science Module 1 - The Structure of Matter
- ▶ 6th Grade Science Module 2 - Properties of Matter
- ▶ 6th Grade Science Module 3 - States of Matter
- ▶ 6th Grade Science Module 4 - Elements, Compounds, Mixtures
- ▶ 6th Grade Science Module 5 - The Atom

In 6th grade, learners concentrate on Physical Science, including the study of matter, elements, compounds, mixtures, and culminating with the atom. Learners begin by understanding how to keep and follow through with a Science Journal and complete virtual labs along the way.

## GRADE 6

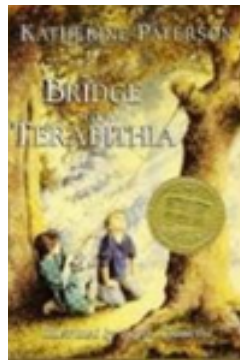
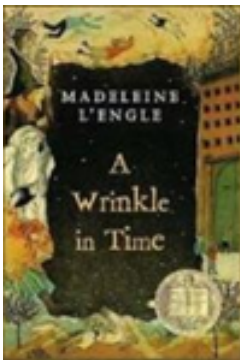
### Grade 6 SOCIAL STUDIES

- ▶ 6th Grade Social Studies Module 1 - Ancient Mesopotamia
- ▶ 6th Grade Social Studies Module 2 - Ancient Egypt
- ▶ 6th Grade Social Studies Module 3 - The Phoenicians
- ▶ 6th Grade Social Studies Module 4 - Early Chinese Civilizations
- ▶ 6th Grade Social Studies Module 5 - Ancient Greece

In 6th grade social studies learners begin with ancient World History by starting with Ancient Mesopotamia and culminating with Ancient Greece.

### Grade 6 LANGUAGE ARTS

1



2



3

You Choose

In 6th Grade Language Arts, learners begin with the Writing Process, and by learning about Narrative Writing. They then use their knowledge of narrative writing as they read the four required books: *A Wrinkle in Time*, *Bridge to Terabithia*, *See No Evil*, *Anne of Green Gables*, and an additional self-selected book. Learners learn to pace out their reading; to create an understanding of plot; reading fluency, and comprehension.

## GRADE 7

### Grade 7 MATHEMATICS

- ▶ 7th Grade Math Module 1 - Algebraic Reasoning
- ▶ 7th Grade Math Module 2 - Algebraic Thinking Part 2
- ▶ 7th Grade Math Module 3 - Using Integers
- ▶ 7th Grade Math Module 4 - More Algebraic Thinking
- ▶ 7th Grade Math Module 5 - Using Decimals
- ▶ 7th Grade Math Module 6 - Working With Fractions

In addition to an introductory module, 7th grade learners begin with algebraic reasoning, and continue through working with fractions. Mathematics works with learners through problem solving in real-work situations while ensuring fluency in operations of addition, subtraction, multiplication, and division.

### Grade 7 SCIENCE

- ▶ 7th Grade Science Module 1 - Introduction to Life Science and Scientific Method
- ▶ 7th Grade Science Module 2 - The Nature of Science
- ▶ 7th Grade Science Module 3 - Ecology
- ▶ 7th Grade Science Module 4 - Preservation
- ▶ 7th Grade Science Module 5 - Life Science

In 7th grade, science focuses on life science, by introducing and implementing the scientific method, and culminating in cells. Learners begin to utilize the scientific method in conducting their laboratories, and discussions. The use of the Science Journal continues.

## GRADE 7

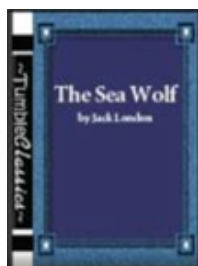
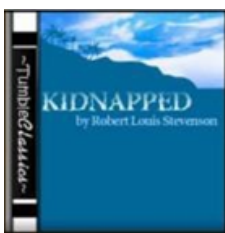
## Grade 7 SOCIAL STUDIES

- ▶ 7th Grade Social Studies Module 1 - Early Civilizations
- ▶ 7th Grade Social Studies Module 2 - Empires of the Americas
- ▶ 7th Grade Social Studies Module 3 - The English in North America
- ▶ 7th Grade Social Studies Module 4 - Independence
- ▶ 7th Grade Social Studies Module 5 - Articles of Confederation
- ▶ 7th Grade Social Studies Module 6 - A Federal Government is Established

In 7th grade Social Studies, learners begin with the early America's, and continuing through the establishment of the United States Government.

## Grade 7 LANGUAGE ARTS

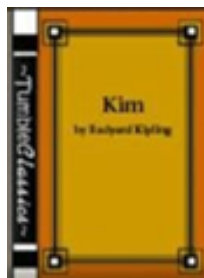
1



2



"Howard's End" and "Kim" will open in Tumble Books - You will have to log in with user name Orion and password login



3

You Choose

In 7th Grade Language Arts, learners begin with an understanding of the writing, while focusing in on descriptive writing. Learners continue the required readings: Kidnapped, The Sea Wolf, Howard's End, Kim, and a self- selection. Learners are introduced to Literary Terms and use those as they present their understanding of the writing requirements through their novel reading.

# GRADE 8

## Grade 8 MATHEMATICS

- ▶ 8th Grade Math Module 1 - Algebraic Expressions and Integers
- ▶ 8th Grade Math Module 2 - Solving One-Step Equations and Inequalities
- ▶ 8th Grade Math Module 3 - Decimals and Equations
- ▶ 8th Grade Math Module 4 - Factors-Fractions-Exponents
- ▶ 8th Grade Math Module 5 - Operations with Fractions
- ▶ 8th Grade Math Module 6 - Ratios-Proportions-Percents

Learners in 8th Grade math begin pre-algebra by being introduced to expressions and integers, and culminating with ratio, proportions, and percent. Fluency is critical as learners now begin to use operations in order to solve problems.

## Grade 8 SCIENCE

- ▶ 8th Grade Science Module 1 - An Introduction
- ≡ 8th Grade Science Module 1 - Pages From the Book
- ▶ 8th Grade Science Module 2 - The Composition of Earth
- ▶ 8th Grade Science Module 3 - Chemical Changes
- ▶ 8th Grade Science Module 4 - The Atom
- ▶ 8th Grade Science Module 5 - Rocks and Minerals
- ▶ 8th Grade Science Module 6 - Igneous Rocks
- ▶ 8th Grade Science Module 7 - Dynamic Earth

8th grade science continues where 7th left off and concentrates on physical science of the Earth. The course begins with an introduction to Earth Science and culminates with a study of the Earth's structure. Learners use the All Gifted Lab Report to demonstrate their understanding of the scientific method, during labs.



## GRADE 8

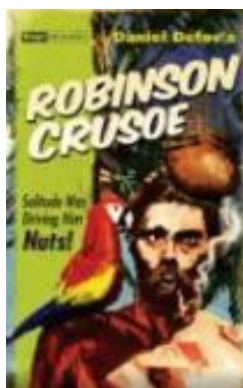
### Grade 8 SOCIAL STUDIES

- ▶ 8th Grade Social Studies Module 1 - Introduction to Civics and Government
- ▶ 8th Grade Social Studies Module 2 - The Diversity of the USA
- ▶ 8th Grade Social Studies Module 3 - Our English Heritage
- ▶ 8th Grade Social Studies Module 4 - A New Nation is Born
- ▶ 8th Grade Social Studies Module 5 - The Nation's First Government

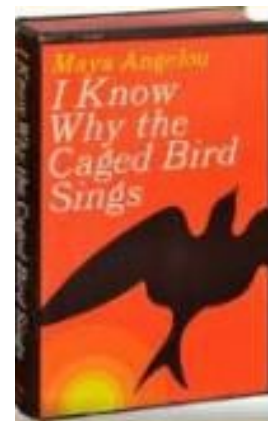
In 8th grade social studies, learners continue their understanding of early American History, by concentrating on their role in civics and government.

### Grade 8 LANGUAGE ARTS

1



2



3

Library

In 8th grade language arts, learners begin with the writing process, to include an understanding of persuasive writing. They continue to the four required novels of the course: *Pride and Prejudice*, *Robinson Crusoe*, *The Old Man and the Sea*, and *I know Why the Caged Bird Sings*. All activities center on writing for persuasion, and include knowledge of plot, summary, characterization, and theme.

## WORLD LANGUAGES FOR 6, 7, 8

6th, 7th, and 8th graders may take level 1, 2, or 3 of any language. Note, though, that high school credit will only be awarded for 7th and 8th.