

# 7TH GRADE CORE COURSES

ADAM DOWNING  
7TH GRADE  
COMMON CORE  
MATH

The 7th Grade Common Core Math course focuses on several critical mathematical areas of study. First, students will develop an understanding of and apply proportional relationships to real world situations. Next, students will then work with numerical operations involving integers and rational numbers and will apply this knowledge to solve, simplify, and create algebraic expressions and linear equations. Third, the course will also ask students to solve problems involving scale drawings, informal geometric constructions, and working with two- and three-dimensional shapes to to solve real world problems involving area, surface area, and volume. Lastly, students will be asked to analyze populations and draw inferences based on valid samples.

DANIELLE KELLER  
7TH GRADE  
ELA

This Language Arts class aligns itself to the PA 7th grade state standards for writing, reading, and oral communication. The class explores grammar concepts, various novels, short stories, drama, nonfiction, and poetry. Students will learn to analyze texts for elements of plot, characterization, author's purpose, and figurative language. The overarching theme for this course is uncovering an author's bias, an important skill for students to use cross-curricular. Students will examine this bias by identifying an author's purpose behind writing and analyzing how that particular perspective affects not only the product, but also the audience. Writing assignments focus heavily on the text-dependent analysis.

ANDREW DITTY  
ANCIENT  
CIVILIZATIONS

Ancient Civilization traces the development of civilizations around the world, beginning with the Sumerians and Babylonians in the Fertile Crescent. The course also explores the ancient Hebrews, Egyptians, and Chinese. We will look at the characteristics of civilization, how they develop and ultimately how they collapse. Students will also study the ancient governments of Greece and Rome and how they influenced Western Civilization today.

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DR. TRICIA  
BRITTON  
7TH GRADE  
SCIENCE

Science in the 7th grade is a general science course. It starts with the Nature of Science which is common to every science class. Basic skills are reviewed and expanded. These skills include, but are not limited to, measurements, tools, graphing, data collection, lab writing since these are skills that will be used during the remainder of the year. From here, the progression of topics are: Characteristics of living things, the cell and cell processes, genetics, evolution, classification and environmental science. The cell processes studied are diffusion, active transport, respiration and photosynthesis, mitosis and meiosis.