

Syllabus

Course Title: 7th Grade MATH

Grade: 7

DESCRIPTION OF COURSE: 7th grade math is a course aligned to the common core standards. There are five major units of study including ratios and proportional relationships, the number system, expressions and equations, geometry, and statistics and probability.

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ELIGIBLE CONTENT
Ratios and Proportional Relationships	27-30	Analyze proportional relationships and use them to model and solve real-world and mathematical problems. M07.A-R.1.1.1 to 1.1.6
The Number System	21-25	Solve real-world and mathematical problems involving the four operations with rational numbers. M07.A-N.1.1.1-1.1.3
Expressions and Equations	32-35	Use properties of operations to generate equivalent expressions. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers. Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems. Determine the reasonableness of the answer(s) in problem-solving situations. M07.B-E.1.1.1, 2.1.1, 2.2.1, 2.2.2, 2.3.1
Geometry	34-38	Describe and apply properties of geometric figures. Identify, use and describe properties of angles and their measures. Determine circumference, area, surface area and volume.

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ELIGIBLE CONTENT
		M07.C-G.1.1.1-1.1.4, 2.1.1-2.1.2, 2.2.1-2.2.2
Statistics and Probability	26-30	Use random samples. Use statistical measures to compare two numerical data distributions. Predict or determine the likelihood of outcomes. Use probability to predict outcomes.
		M07.D-S.1.1.1-1.1.2, 2.1.1, 3.1.1, 3.2.1-3.2.3

RESOURCES

Grade 7 Mathematics Assessment Anchors and Eligible Content by PDE (www.pdesas.org) 2012

HOLT Mathematics, Course 3

Connected Mathematics 2, Grade 7