

Advanced Middle School Mathematics 8 Week Curriculum:

Week Number	Lesson	Content
Week 1	Real Number System	• Classify sets and subsets of real numbers (rational, irrational, integers). • Approximating the values of irrational numbers • Ordering real numbers on a number line and in context
Week 2	Exponents and Scientific Notation	• Learning and applying basic properties of exponents • Converting between decimal notation and scientific notation
Week 3	Slope and Slope Formula	• Learning slope formula • Determining slope and y-intercept from tables and graphs • Use data to write linear equations in $y=mx+b$
Week 4	Proportional and Non Proportional Relationships	• Represent linear proportional situations with tables, graphs, and equations ($y = kx$). • Contrast proportional and non-proportional linear relationships.
Week 5	One variable equations and inequalities	• Learn to solve and write equations with variables on both sides • Solve linear inequalities with variables on one or both sides
Week 6	Transformational Geometry Intro	• Graph and describe translations, reflections, and rotations on a coordinate plane.=

Week 7	FULL SEMESTER REVIEW	• Review all content learned from the semester to strengthen any weak points
Week 8	Semester Final	• Test all learned content from the semester