



7th Grade Year At-A-Glance

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Math	Module 2: Rational Numbers <ul style="list-style-type: none"> • Addition and subtraction of integers and rational numbers • Multiplication and division of integers and rational numbers • Applying operations with rational numbers to expressions and equations Module 1 : Ratios and Proportional Relationships <ul style="list-style-type: none"> • Proportional relationships in tables and graphs • Unit rate and the constant of proportionality • Ratios and rates involving fractions • Ratios of scale drawings 		Module 1 : Ratios and Proportional Relationships <ul style="list-style-type: none"> • Proportional relationships in tables and graphs • Unit rate and the constant of proportionality • Ratios and rates involving fractions • Ratios of scale drawings Module 3: Expressions and Equations <ul style="list-style-type: none"> • Use properties of operations to generate equivalent expressions • Solve problems using expressions, equations, and inequalities • Use equations and inequalities to solve geometry problems 		Module 3: Expressions and Equations <ul style="list-style-type: none"> • Use properties of operations to generate equivalent expressions • Solve problems using expressions, equations, and inequalities • Use equations and inequalities to solve geometry problems Module 4: Percent and Proportional Relationships <ul style="list-style-type: none"> • Finding the whole • Percent problems including more than one whole • Scale drawings • Population, mixture, and counting problems involving percents 		Module 6: Geometry <ul style="list-style-type: none"> • Unknown angles • Constructing triangles • Slicing solids • Real world problems involving area and surface Area Module 5: Statistics and Probability <ul style="list-style-type: none"> • Calculating and interpreting probabilities • Estimating random sampling and estimating population • Characteristics of probabilities • Comparing populations 	
Honors Math	(7th) Module 1 : Ratios and Proportional Relationships <ul style="list-style-type: none"> • Proportional relationships in tables and graphs • Unit rate and the constant of proportionality • Ratios and rates involving fractions • Ratios of scale drawings 	(7th) Module 2: Rational Numbers <ul style="list-style-type: none"> • Addition and subtraction of integers and rational numbers • Multiplication and division of integers and rational numbers • Applying operations with rational numbers to expressions and equations 	(7th) Module 3: Expressions and Equations <ul style="list-style-type: none"> • Use properties of operations to generate equivalent expressions • Solve problems using expressions, equations, and inequalities • Use equations and inequalities to solve geometry problems 	(8th) Unit 2: Concept of Congruence <ul style="list-style-type: none"> • Definitions and properties of the basic rigid motions • Sequencing the basic rigid motions 	(8th) Unit 3: Similarity <ul style="list-style-type: none"> • Dilations (same shape, properties, FTS, dilations on coordinate plane) • Similar figures (basic properties of similarity, informal proof of AA, similar triangles, & modeling similarity) 	(7th) Module 4: Percent and Proportional Relationships <ul style="list-style-type: none"> • Finding the whole • Percent problems including more than one whole • Scale drawings • Population, mixture, and counting problems involving percents 	(7th) Module 5: Statistics and Probability <ul style="list-style-type: none"> • Calculating and Interpreting Probabilities (chance experiments, collecting & interpreting data, chance experiments with equally likely outcomes, etc) 	(7th) Module 6: Geometry <ul style="list-style-type: none"> • Unknown angles • Constructing triangles • Slicing solids • Real world problems involving area and surface Area

Science	Nature of Science, Matter & Energy in Organisms & Ecosystems <ul style="list-style-type: none"> •Lab Safety and Equipment •Measurement •Scientific Method •Properties of Life •Metabolism & cycles (cellular respiration) •Matter and energy in producers •Digestion and cell respiration 		Chemical Reactions & Structure & Properties of Matter <ul style="list-style-type: none"> •Intro to chemical reactions •Five types of chemical reactions •Basic Chemistry •Changes in matter •Conservation of matter 	Interdependent Relationships in Ecosystems/ Human Impact <ul style="list-style-type: none"> •Community relationships •Energy Flow •Ecological Succession •Human Actions •Sixth Extinction •Renewable Energy 		Earth Systems/History of Earth <ul style="list-style-type: none"> •Geoscience processes •How water shapes the Earth •Erosion & deposition •Intro into geology •Plate tectonics •Earthquakes •Volcanoes •Fossils 	
Honors Science	Unit 1: Nature of Science <ul style="list-style-type: none"> •Lab Safety and Equipment •Measurement •Scientific Method •Graphing 	Unit 2: Matter-Structure & Properties of Matter <ul style="list-style-type: none"> •Basic Chemistry •Changes in matter •Conservation of matter 	Unit 3: Chemical Reactions <ul style="list-style-type: none"> •Intro to chemical reactions •Five types of chemical reactions <p>*** Semester Review and Final Exams***</p>	Unit 4: Interdependent Relationships in Ecosystems/ Human Impact <ul style="list-style-type: none"> •Community relationships •Energy Flow •Ecological Succession •Human Actions •Sixth Extinction •Renewable Energy 	Unit 5: Matter & Energy in Organisms & Ecosystems <ul style="list-style-type: none"> •Properties of Life •Metabolism & cycles (cellular respiration) •Matter and energy in producers •Digestion and cell respiration 	Unit 6: Earth Systems <ul style="list-style-type: none"> •Geoscience processes •How water shapes the Earth •Erosion & deposition 	Unit 7: History of Earth <ul style="list-style-type: none"> •Intro into geology •Plate tectonics •Earthquakes •Volcanoes •Fossils <p>*** Semester Review and Final Exams***</p>

Geography	Unit 1: <ul style="list-style-type: none"> •The World •North America (Canada and the United States) 	Unit 2: <ul style="list-style-type: none"> •Mexico, Central and South America •Europe 	Unit 3: <ul style="list-style-type: none"> •Asia •Africa 	Unit 4: <ul style="list-style-type: none"> •Oceania, Australia, New Zealand, and Antarctica
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