

Course Title	Math 8, EdGems			
Content Outline	Instruction Materials Referenced	Standards Taught	How will students demonstrate the learning?	
Unit 1	Equations	L1.1-L1.6 (omit cube roots from L1.6)	<p>8.NS.A Know that there are numbers that are not rational, and approximate them by rational numbers.</p> <p>8.AEE.A Work with radicals and integer exponents.</p> <p>8.AEE.C Analyze and solve linear equations and pairs of simultaneous linear equations.</p>	Unit 1 assessment from EdGems
Unit 2	The Pythagorean Theorem	L2.1 - L2.3 (Distance formula is not an 8th grade standard, remove any task that includes it)	8.GM.B Understand and apply the Pythagorean Theorem.	<p>Rich tasks, regular and extended performance tasks</p> <p>Unit 2 assessment from EdGems</p>
Unit 3	Proportional Relationships	L3.1 - L3.4	<p>8.AEE.B Understand the connections between proportional relationships, lines, and linear equations.</p> <p>8.AFN.A Define, evaluate, and compare functions.</p>	Unit 3 assessment from EdGems
Unit 4	Functions	L4.1 - L4.6 (omit L4.4 if there aren't authentic contexts that motivate the need for other forms of linear functions)	<p>8.AEE.B Understand the connections between proportional relationships, lines, and linear equations.</p> <p>8.AFN.A Define, evaluate, and compare functions.</p> <p>8.AFN.B Use functions to model relationships between quantities.</p>	Unit 4 assessment from EdGems
Unit 5	Systems of Equations	L5.1 - L5.4	8.AEE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	Unit 5 assessment from EdGems

Unit 6	Angle Relationships	L6.1 - L6.5	8.GM.A Understand congruence and similarity using physical models, transparencies, or geometry software.	Unit 6 assessment from EdGems
Unit 7	Transformations	L7.1 - L7.5 (Rotations can be limited to 90, 180, 270, and 360 degrees around the origin)	8.GM.A Understand congruence and similarity using physical models, transparencies, or geometry software.	Unit 7 assessment from EdGems Logo Project
Unit 8	Exponent Properties	L8.2 - L8.4	8.AEE.A Work with radicals and integer exponents.	Unit 8 assessment from EdGems
Unit 9	Volume	L9.1 - L9.3 (omit any assessment or problem that requires students to memorize formulas)	8.GM.C Solve mathematical problems in authentic contexts involving volume of cylinders, cones, and spheres.	Unit 9 assessment from EdGems
Unit 10	Bivariate Data	L10.1 - L10.4	8.DR.A Formulate statistical investigative questions. 8.DR.B Collect and consider data. 8.DR.C Analyze, summarize, and describe data. 8.DR.D Interpret data and answer investigative questions	Unit 10 assessment from EdGems