



6th Grade Advanced Math Curriculum Map

Last Updated: 10/24/2024

Quarter 1		
Essential Question/Topic	Standards	Parent Resources
Topic 1: Rational Number Operations How can the properties of operations be used to solve problems involving integers and rational numbers?	7.NS.A Apply and extend previous understandings of operations with fractions.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 1 Parent Letter Spanish
Topic 2: Real Numbers What are real numbers? How are real numbers used to solve problems?	8.EE.A Work with radicals and integer exponents. 8.NS.A Know that there are numbers that are not rational, and approximate them by rational numbers.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 2 Parent Letter Spanish

Quarter 2		
Essential Question/Topic	Standards	Parent Resources
Topic 3: Analyze and Use Proportional Relationships How can you recognize and represent proportional relationships and use them to solve problems?	7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 3 Parent Letter Spanish
Topic 4: Analyze and Solve Percent Problems How can percents show proportional relationships between quantities and be used to solve problems?	7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 4 Parent Letter



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Quarter 3		
Essential Question/Topic	Standards	Parent Resources
Topic 5: Generate Equivalent Expressions How can properties of operations help to generate equivalent expressions that can be used in solving problems?	7.EE.A Use properties of operations to generate equivalent expressions.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 5 Parent Letter Spanish
Topic 6: Solve Problems Using Equations and Inequalities How can you solve real-world and mathematical problems with numerical and algebraic equations and inequalities?	7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 6 Parent Letter Spanish

Quarter 4		
Essential Question/Topic	Standards	Parent Resources
Topic 7: Analyze and Solve Linear Equations How can we analyze connections between linear equations, and use them to solve problems?	8.EE.B Understand the connections between proportional relationships, lines, and linear equations. 8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 7 Parent Letter Spanish
Topic 8: Use Sampling to Draw Inferences About	7.SP.A Use random sampling to draw inferences about a population.	Savvas Parent Resource



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Populations How can sampling be used to draw inferences about one or more populations?	7.SP.B Draw informal comparative inferences about two populations.	IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 8 Parent Letter Spanish
Topic 9: Probability How can you investigate chance processes and develop, use, and evaluate probability models?	7.SP.C Investigate chance processes and develop, use, and evaluate probability models.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 9 Parent Letter Spanish
Topic 10: Solve Problems Involving Geometry How can geometry be used to solve problems?	7.G.A Draw, construct, and describe geometrical figures and describe the relationships between them. 7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 10 Parent Letter Spanish
Topic 11: Congruence and Similarity How can you show that two figures are either congruent or similar to one another?	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 11 Parent Letter Spanish
Topic 12: Understand and Apply the Pythagorean Theorem How can you use the Pythagorean Theorem to solve problems?	8.G.B Understand and apply the Pythagorean Theorem.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV



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		Topic 12 Parent Letter Spanish
Topic 13: Solve Problems Involving Surface Area and Volume How can you find volumes and surface areas of three-dimensional figures?	8.G.C Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.	Savvas Parent Resource IXL Family Guide IXL Envision Skill Plan 6 ADV Topic 13 Parent Letter Spanish