7th Grade Curriculum Map

Time	Unit Title	Objective	CCSS Objective	Literacy Activities	Skills/ Mathematical Practices
4 Weeks	Problem Solving and Probability	- Find unknown numbers - Investigate a proportional relationship to make a prediction - Investigate number patterns - Finding and describing probability - Modify a sample space - Express probabilities (fractions) as percents - Add fractions to calculate compound probabilities - Subtract fractions and probabilities	- 7.SP.5 - 7.SP.6 - 7.SP.7a - 7.SP.7b - 7.SP.8a	- Close Reading - Teacher/Student Think Aloud - Contextual Problem Solving - Turn and Talk	- Make sense of problems and persevere in solving them - Reason abstractly and quantitatively - Construct viable arguments and critique the reasoning of others
4 Weeks	Fractions and Integer Addition	- Convert fractions to decimals - Convert decimals to fractions - Adding integers and rational numbers - Connect multiplication and addition - Multiply fractions - Multiply mixed numbers - Create graphs for data - Evaluating graphs	- 7.NS.1b - 7.NS.1d - 7.NS.2a - 7.NS.2d - 7.RP.2d	- Close Reading - Teacher/Student Think Aloud - Contextual Problem Solving - Turn and Talk	- Model with mathematics - Use appropriate tools strategically - Attend to precision - Look for and make use of structure

4 Weeks	Arithmetic Properties	- Simplify and group expressions - Identify terms of an expression - Subtract integers - Connect addition and subtraction - Connect multiplication and subtraction - Multiply decimals - Add, subtract, multiply, and divide integers - Divide fractions and decimals - Identify and use arithmetic properties	- 7.NS.1b - 7.NS.1d - 7.NS.2a - 7.NS.2b - 7.NS.2c - 7.NS.3	- Close Reading - Teacher/Student Think Aloud - Contextual Problem Solving - Turn and Talk	- Look for and express regularity in repeated reasoning
4 Weeks	Proportions and Expressions	- Identify similar figures - Use scale drawings to solve problems - Recognize a proportional relationship - Identify proportional relationships in tables and graphs - Using unit rates and equations in proportional relationships - Connect representations of proportional relationships - Simplify algebraic expressions using the like terms and the distributive	- 7.EE.1 - 7.G.1 - 7.RP.1 - 7.RP.2	- Close Reading - Teacher/Student Think Aloud - Contextual Problem Solving - Turn and Talk	

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4 Weeks	Probability and Word Problems	- Connect percents and ratios - Find and use percents - Find probabilities - Find expected outcomes using probabilities and simulations - Find probabilities of compound independent events - Use probability tables and tree to find probabilities - Find the probability of compound events - Describe relationships between quantities - Use variables and other strategies to solve word problems	- 7.EE.3 - 7.RP.2d - 7.SP.6 - 7.SP.7 - 7.SP.8	- Close Reading - Teacher/Student Think Aloud - Contextual Problem Solving - Turn and Talk	
4 Weeks	Solving Equations and Inequalities	- Solve one variable inequalities and equations - Check solutions to equations - Use a table to write equations - Write and solve equations - Identify cases of equations with infinite and no solutions	- 7.EE.3 - 7.EE.4	- Close Reading - Teacher/Student Think Aloud - Contextual Problem Solving - Turn and Talk	
4 Weeks	Proportions and Percents	- Solve problems with distance, rate, and time	- 7.EE.2 - 7.EE.3	- Close Reading - Teacher/Student Think	

		- Scale quantities - Solve problems involving percents - Solve equations with fractions and decimals - Calculate percent increase and decrease - Calculate simple interest - Solve proportions	- 7.EE.4a - 7.RP.2d	Aloud - Contextual Problem Solving - Turn and Talk	
4 Weeks	Statistics and Angle Relationships	- Make precise measurements - Compare data distributions - Identify samples and representative samples - Make inferences from random samples - Classify and measure angles - Use geometric tools to construct shapes	- 7.SP.1 - 7.SP.2 - 7.SP.3 - 7.SP.4 - 7.G.2 - 7.G.5	- Close Reading - Teacher/Student Think Aloud - Contextual Problem Solving - Turn and Talk	
4 Weeks	Circles and Volume	- Find the diameter and circumference of a circle - Find the area of a circle - Find the area of composite shapes - Find the surface area and volume of prisms - Identify shapes of cross sections of 3D solids	- 7.G.3 - 7.G.4 - 7.G.6	- Close Reading - Teacher/Student Think Aloud - Contextual Problem Solving - Turn and Talk	