					Additional Resources	Ala. Math Course of Study	Date completed
Accentuate the Negative: Integers and Rational Numbers			1st Nine Weeks	21-24 days (includes assessments)			
	Investigation 1					7-NS.1abc, 7-NS.3, 7-EE.4,	
	1.1	**Playing Math Fever: Using Positive and Negative Numbers**					
	1.2	**Extending the Number Line**					
	1.3	**From Sauna to Snowbank: Using a Number Line**					
	1.4	**In the Chips: Using a Chip Model**					
	Investigation 2					7-NS1abc, 7-EE3	
	2.1	**Extending Addition to Rational Numbers**					
	2.2	**Extending Subtraction to Rational Numbers**					
	2.3	**The "+/-" Connection**					
	2.4	Fact Families					
	Investigation 3					7-NS2, 7-NS3, 7-EE3	
	3.1	**Multiplication Patterns with Integers**					
	3.2	**Multiplication of Rational Numbers**					
	3.3	**Division of Rational Numbers**					
	3.4	**Playing the Integer Product Game: Applying Multiplication and Divison of Integers**					
	Investigation 4					7-NS1d, 7-NS2ac, 7-NS3, 7-EE3	
	4.1	Order of Operations					
	4.2	The Distributive Property					
	4.3	What Operations are Needed?					
Stretching and Shrinking: Understanding Similarity				15-20 days			
	Investigation 1					7-RP2b, 7-G1, 7-G2, 7-G6	
	1.1	Solving a Mystery: An Introdction to Similarity					
	1.2	Scaling Up and Down: Corresponding Sides and Angles					
	Investigation 2					7.RP2ab, 7.G1, 7.G6	
	2.1	**Drawing Wumps: Making SImilar Figures**					
	2.2	**Hats off to the Wumps: Changing a Figures Size and Location**					
	2.3	**Mouthing Off and Nosing Around: Scale Factors**					
	Investigation 4					7.RP2ab, 7.EE4, 7.RP3, 7.EE3, 7.G1, 7.G6	
	4.1	**Ratios within Similar Parallelograms**					
	4.2	**Ratios within Similar Triangles**					
	4.3	**Finding Missing Parts: Using Similarity to Find Measurements**					
	4.4	**Using Shadows to Find Heights: Using Similar Triangles**					
Comparing and Scaling: Ratios, Rates, Percents, and Proportions							

	Investigation 1		2nd Nine Weeks	10-15 days		7-RP2, 7-RP3, 7-EE4	
	1.1	**Surveying Opinions: Analyzing Comparison Statements**					
	1.2	**Mixing Juice: Comparing Ratios**					
	1.3	**Time to Concentrate: Scaling Ratios**					
	1.4	**Keeping Things in Proportion: Scaling to Solve Proportions**					
	Investigation 2					7-RP1, 7-RP2, 7-RP3, 7-EE4	
	2.1	**Sharing Pizza: Compaison Strategies**					
	2.2	**Comparing Pizza Prices: Scaling Rates**					
	2.3	**Finding Costs: Unit Rate and Constant of Proportionality**					
	Investigation 3					7-RP2, 7.RP3, 7-RP1, 7-NS3, 7-EE3, 7-EE4	
	3.1	**Commissions, Markups, and Discounts: Proportions with Percents**					
Moving Straight Ahead: Linear Relationships				20-25 days			
	Investigation 1					7-EE3, 7-EE4, 7-RP2	
	1.1	**Walking Marathons: Finding and Using Rates**					
	1.2	**Walking Rates and Linear Relationships: Tables, Graphs, and Equations**					
	1.3	**Raising Money: Using Linear Relationships**					
	1.4	**Using Walkathon Money: Recognizing Linear Relationships**					
	Investigation 2					7-EE3, 7-EE4, 7-RP2,	
	2.1	**Henri and Emile's Race: Finding the Point of Intersection**					
	2.2	**Crossing the Line: Using Tables, Graphs, and Equations**					
	2.3	**Comparing Costs: Comparing Relationships**					
	2.4	Connecting Tables, Graphs, and Equations					
	Investigation 3					7-EE2, 7-EE4, 7-EE1, 7-EE3	
	3.1	**Solving Equations Using Tables and Graphs**					
	3.2	**Mystery Pouches in the Kingdom of Montarek: Exploring Equality**					
	3.3	**From Puches to Variables: Writing Equations**					
	3.4	**Solving Linear Equations**					
	3.5	Finding the Point of Intersection: Equations and Inequalities					
	Investigation 4			5-8 days		7-EE1, 7-EE4, 7-EE3	
	4.1	**Climbing the Stairs: Using Rise and Run**					
	4.2	**Finding the Slope of a Line**					
	4.3	Exploring Patterns with Lines					
	4.4	Pulling It All Together: Writing Equations for Linear Relationships					
Shapes and Designs: Two Dimensional Geometry							

	Investigation 1		3rd Nine Weeks	15-20 days		7-G2	
	1.1	Sorting and Sketching Polygons					
	1.2	In a Spin: Angles and Rotations					
	1.3	Estimating Measures of Rotations and Angles					
	1.4	Measuring Angles					
	1.5	Design Challenge 1: Drawing with Tools-Ruler and Protractor					
	Investigation 2					7-EE2, 7-EE4, 7-G2	
	2.1	Angle Sums of Regular Polygons					
	2.2	Angle Sums of Any Polygon					
	2.3	The Bees Do It: Polygons in Nature					
	2.4	The Ins and Outs of Polygons					
	Investigation 3					7-G2, 7-G5	
	3.1	Building Triangles					
	3.2	Design Challenge 2: Drawing Triangles					
	3.3	Building Quadrilaterals					
	3.4	Parallel Lines and Transversals					
	3.5	Design Challenge 3: The Quadrilateral Game					
Filling and Wrapping: Three-Dimensional Measurement				20-25 days			
	Investigation 1					7-RP2, 7-EE2, 7-G6, 7-G1	
	1.1	**How Big Are Those Boxes? Finding Volume**					
	1.2	**Optimal Containers: Finding Surface Area**					
	Investigation 2					7-NS3, 7-G3, 7-G6	
	2.1	**Folding Paper: Surface Area and Volume of Prisms**					
	2.2	**Packing a Prism: Calculating Volume of Prisms**					
	2.3	**Slicing Prisms and Pyramids**					
	Investigation 3					7-NS3, 7-G4, 7-G6	
	3.1	**Going Around in Circles: Circumference**					
	3.3	**Squaring a Circle to Find its Area**					
	3.4	**Connecting Circumference and Area**					
What Do You Expect? Probability and Expected Value							
	Investigation 1					7-RP2, 7-SP6, 7-SP7	
	1.1	**Choosing Cereal: Tossing Coins to Find Probabilities**					
	1.2	**Tossing Paper Cups: Finding More Probabilities**					
	1.3	**One More Try: Finding Experimental Probabilities**					
	1.4	**Analyzing Events: Understanding Equally Likely**					
	Investigation 2					7-RP2, 7-SP5, 7-SP6, 7-SP7, 7-SP8	
	2.1	**Predicting to Win: finding Theoretical Probabilities**					

	2.2	**Choosing marbles: Developing Probability Models**	4th 9 Wee	15-			
	2.3	**Designing a Fair Game: Pondering Possible/Probable**					
	Investigation 3					7-RP2, 7-SP5, 7-SP6, 7-SP7, 7-SP8	
	3.1	**Designing a Spinner to Find Probabilities**					
	3.2	**Making Decisions: Analyzing Fairness**					
Samples and Populations: Making Comparisons and Predictions							
	Investigation 1					7-SP4	
	1.1	**Comparing Performances: Using Center and Spread**		10-15 days			
	1.2	**Which Team is Most Successful? Using the MAD to Compare Samples**					
	Investigation 2					7-SP1, 7-SP2	
	2.1	**Asking about Honesty: Using a Sample to Draw Conclusions**					
	2.2	**Selecting a Sample: Different Kinds of Samples**					
	2.3	**Choosing Random Samples: Comparing Samples Using Center and Spread**					
	2.4	**Growing Samples: What Size Sample to Use?**					
***Critical Areas of Focus in Bold**							