Pre-Algebra Amplify

Unit	Lesson	Amplify	Title	Week	Topic	Date Completed	Practice Problems Completed?	Rate your mastery on a scale of 1-10
Rigid Transformations and Congruence	1	8.1.02	Spinning, Flipping, Sliding	Week 1	Naming Transformations			
	2	8.1.03	Transformation Targets		Sequences of Transformations			
	3	8.1.04	Moving Day		Transformations on Grids			
	4	8.1.05	Getting Coordinated Part 1		Coordinates of Translations and Reflections			
	5	8.1.06	Getting Coordinated Part 2	Week 2	Coordinates of Transformations			
			Quiz					
	6	8.1.7/8	Are They the Same?		Defining Congruence			
	7	8.1.09	Are They Congruent?		Rigid Transformations and Congruent Figures			
	8	7.7.02	Friendly Angles		Complementary and Supplementary Angles			
	9	7.7.03	Angle Diagrams	Week 3	Vertical Angles and Equations			
	10	8.1.10	Transforming Angles		Angle Measures in Parallel Lines			
	11	8.1.11	Tearing It Up		Angle Sums in Triangles			
	12	8.1.12	Puzzling It Out	Week 4	Proving the Triangle Sum Theorem			
	13	7.7.05	Can You Build It?		The Triangle Inequality			
	14	7.7.06	Is It Enough?		Building Polygons Given Side Lengths			
	15	7.7.07	More Than One?		Building Triangles With Technology			
	16	7.7.08	Can You Draw It?	Week 5	Drawing Triangles With Rulers and Protractors			
			End Assessment					
Scale Drawings, Dilations, and Similarity	17	7.1.02	Scaling Robots		Lengths and Scaled Copies			
	18	7.1.03	Make It Scale		Drawing Scaled Copies			
	19	7.1.04	Scale Factor Challenges		Effects of Scale Factors			
	20	7.1.07	Will It Fit?	Week 6	Scale Drawings			
	21	7.1.10	Scaling Buildings		Creating Scale Drawings			
			Quiz					
	22	8.2.01	Sketchy Dilations		Exploring Dilations and Similarity			
	23	8.2.02	Dilation Mini Golf		Dilations With No Grid			
	24	8.2.03	Transformation Targets With Dilations					
	25	8.2.04	Match My Dilation	Week 7	Dilations on a Square Grid			
	26	8.2.05	Dilations on a Plane		Dilations with Coordinates			
	27	8.2.07	Are Angles Enough?	Week 8	Similar Triangles			
	28	8.2.08	Shadows		Side Length Quotients in Similar Triangles			
	29	8.2.09	Water Slide		Slope of Lines			
	30	8.2.10	Slope Challenges		Developing Fluency with Slope			
			End Assessment					
Equations and Inequalities	31	7.6.01	Toothpicks and Tiles		Nonproportional Relationships			
	32	7.6.03	Equations	Week 9	Representing Contexts With Tape Diagrams and Equations			
	33	7.6.04	Seeing Structure		Practice With Tape Diagrams and Equations			
	34	7.6.05	Balancing Moves		Introduction to Balanced Hangers			
	35	7.6.06	Balancing Equations		Solving Equations With Balanced Hangers			
	36	7.6.07	Keeping It True	Week 10	Solving Equations			
	37	7.6.08	Factoring and Expanding		Options for Solving One Equation			
	38	7.6.09	Always-Equal Machines		Equivalent Expressions			
	39	7.6.10	Collect the Squares		Adding Expressions			
	40	7.6.11	Polypad	Week 11	Solving Equations by Adding Terms and Expanding			
	41	7.6.12	Community Day		Using Equations to Solve Problems			
			Quiz					
	42	8.4.03	Balanced Moves		Balancing Moves and Undoing			
	43	8.4.04	More Balanced Moves		Solving Linear Equations Part 1			
	44	8.4.06	All, Some, or None?		Equations With One, Many, or No Solutions			
	45	8.4.07	Strategic Solving		Solving Linear Equations Part 2			
	46	8.4.08	When Will They Meet		Solving Linear Equations in Context			
			Quiz					
	47	6.7.07	Tunnel Travels	Week 13	Graphing Inequalities			
	48	6.7.08	Shira's Solutions		Solutions to Inequalities			
	49	7.6.13	I Saw the Signs		Inequalities on the Number Line			
	50	7.6.14	Unbalanced Hangers		Solutions to Inequalities			
	51	7.6.15	Budgeting	Week 14	Solving Inequalities in Context			
	52	7.6.16	Shira the Sheep		Solving Inequalities With Positive and Negative Numbers			
	53	7.6.17	Write Them and Solve Them		Modeling With Inequalities			
			End Assessment					
Linear Relationships and Systems of Equations	54	8.3.01	Turtle Time Trials		Understanding Proportional Relationships			
	55	8.3.02	Water Tank	Week 15	Graphs of Proportional Relationships			
	56	8.3.03	Proportional Posters		Comparing Proportional Relationships			
	57	8.3.04	Flags		Representations of Linear Relationships			
	58	8.3.05	Water Cooler		Slopes Don't Have to Be Positive			
	59	8.3.07	Stacking Cups	Week 16	Introduction to Linear Relationships			
	60	8.3.08	Translations		Translating y=mx+b			
	61	8.3.09	Landing Planes		Calculating Slope			
	62	8.3.10	Coin Capture		Equations of All Kinds of Lines			
	63	8.3.11	Why Intercepts?					
			Quiz					
			Semester Ends					

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Linear Relationships and Systems of Equations	64	8.3.12	Solutions	Week 1	Solutions to Linear Equations			
	65	8.3.13	Pennies and Quarters		Using Linear Equations to Solve Problems			
	66	8.4.09	On or Off the Line?		Interpreting Points On or Off the Line			
	67	8.4.10	On Both Lines	Week 2	Representing Systems of Linear Equations			
	68	8.4.11	Make Them Balance		Graphing Systems of Linear Equations			
	69	8.4.12	Line Zapper		Solving Systems of Linear Equations			
	70	8.4.13	All, Some, or None? Part 2		Systems of Equations With One, Many, or No Solutions			
	71	8.4.14	Strategic Solving Part 2	Week 3	Solving More Systems of Equations			
			End Assessment					
Functions	72	8.5.01	Turtle Crossing		Making Sense of Graphs			
	73	8.5.02	Guess My Rule		Introduction to Functions			
	74	8.5.03	Function or Not?		Graphs of Functions and Non-Functions			
	75	8.5.04	Dependence Day	Week 4	Functions and Equations			
	76	8.5.05	The Tortoise and the Hare		Interpreting Graphs of Functions			
	77	8.5.06	Graphing Stories		Creating Graphs of Functions			
	78	8.5.07	Comparing Linear Functrions		Comparing Representations of Functions			
	79	8.5.09	Piecing It Together	Week 5	Modeling With Piecewise linear Functions			
			End Assessment					
Associations in Data	80	8.6.01	Click Battle		Organizing Data			
	81	8.6.02	Wing Span		Plotting Data			
	82	8.6.03	Robots		What a Point on a Scatter Plot Means			
	83	8.6.04	Dapper Cats	Week 6	Lines of Fit and Outliers			
	84	8.6.05	Interpreting Scatter Plots		Showing Patterns in Data			
	85	8.6.06	Find the Fit		Fitting a Line to Data			
	86	8.6.07	Interpreting Slopes		The Slope of a Fitted Line			
	87	8.6.08	Scatter Plot City	Week 7	Observing More Patterns in Plots			
	88	8.6.09	Animal Brains		Analyzing Bivariate Data			
	89	8.6.10	Tasty Fruit		Two-Way Tables and Bar Graphs			
	90	8.6.11	Finding Associations		Using Data Displays to Find Associations			
			End Assessment					
Volume and Surface Area	91	7.7.09	Slicing Solids		Describing Cross Sections			
	92	7.7.10	Simple Prisms		Using Base Area to Calculate Volume			
	93	7.7.11	Complex Prisms		Calculating Volumes of Right Prisms			
	94	7.7.12	Surface Area Strategies	Week 9	Surface Area of Right Prisms			
	95	8.5.10	Volume Lab		Exploring Volume			
	96	8.5.11	Cylinders		The Volume of a Cylinder			
	97	8.5.12	Scaling Cylinders		Scaling Cylinders Using Functions			
	98	8.5.13	Cones	Week 10	Volume of Cones			
	99	8.5.15	Spheres		Volume of Spheres			
	100	7.7.13	Popcorn Possibilities		Applying Volume and Surface Area			
			End Assessment					
	101		Catch Up Day		TBD			
Exponents and Scientific Notation	102	8.7.01	Circles	Week 11	Exponent Review			
	103	8.7.02	Combining Exponents		Equivalent Expressions With Exponents			
	104	8.7.04	Rewriting Powers		Rewriting Exponential Expressions as a Single Power			
	105	8.7.05	Negative and Zero Exponents		Using Patterns to Understand Zero and Negative Exponents			
			Quiz					
	106	8.7.07	Scales and Weights, Part 1	Week 12	Describing Large Numbers Using Powers of 10			
	107	8.7.08	Scales and Weights, Part 2		Describing Small Numbers Using Powers of 10			
	108	8.7.09	Specific and Scientific		Definition of Scientific Notation			
	109	8.7.11	Balance the Scale	Week 13	Multiplying, Dividing, and Estimating With Scientific Notation			
	110	8.7.13	City Lights		Adding and Subtracting With Scientific Notation			
	111	8.7.14	Nothing but Net Worth		Applying Operations With Scientific Notations			
			End Assessment					
Pythagorean Theorem and Irrational Numbers	112	8.8.01	Tilted Squares		The Areas of Tilted Squares			
	113	8.8.02	From Squares to Roots	Week 14	Side Lengths and Areas			
	114	8.8.03	Between Squares					
	115	8.8.04	Root Down		Approximating Square Roots			
	116	8.8.05	Filling Cubes		Edge Lengths, Volumes, and Cube Roots			
	117	8.8.06	The Pythagorean Theorem		Exploring Squares in Right Triangles			
	118	8.8.07	Picture to Prove It	Week 15	Triangle-Tracing Turtle			
	119	8.8.08	Triangle-Tracing Turtle		Finding Unknown Side Lengths			
	120	8.8.09	Make It Right		The Converse of the Pythagorean theorem			
	121	8.8.10	Taco Truck		Applications of the Pythagorean theorem			
	122	8.8.11	Pond Hopper	Week 16 May	Finding Distances in the Coordinate Plane			
	123	8.8.12	Decimal Deep Dive / Fractions to Decimals		Decimal Representations of Rational Numbers			
	124	8.8.13	Decimals to Fractions		Infinite Decimal Expansions			
	125	8.8.14	Hit the Target		Rational and Irrational Numbers			
			End Assessment					