Pre-Algebra Student Progress Checklist

Unit	#	Lesson	Title	Week	Topic	Date Completed	Practice Problems Completed?	Rate your mastery on a scale of 1-10
Rigid Transformations and Congruence	8.1.2	1	Spinning, Flipping, Sliding	Week 1 Aug 21-24	Naming Transformations			
	8.1.3	2	Transformation Golf		Sequences of Transformations			
	8.1.4	3	Moving Day		Transformations on Grids			
	8.1.5	4	Getting Coordinated		Using Coordinates to Describe Transformations			
	8.1.6	5	Connecting the Dots	Week 2 Aug 28-31	Describing Transformations Precisely			
	8.1	6	Quiz					
	8.1.7/8	6	Are They the Same? / No Bending, No Stretching		Defining Congruence			
	8.1.9	7	Are They Congruent?		Rigid Transformations and Congruent Figures			
	7.7.2	8	Friendly Angles		Complementary and Supplementary Angles			
	7.7.3	9	Angle Diagrams	Week 3 Sep 4-7	Vertical Angles and Equations			
	8.1.10	10	Transforming Angles		Angle Measures in Parallel Lines			
	8.1.11	11	Tearing It Up		Angle Sums in Triangles			
	8.1.12	12	Puzzling It Out	Week 4 Sep 11-14	Proving the Triangle Sum Theorem			
	7.7.5	13	Can You Build It?		The Triangle Inequality			
	7.7.6	14	Is It Enough?		Building Polygons Given Side Lengths			
	7.7.7	15	More Than One?		Building Triangles With Technology			
	7.7.8	16	Can You Draw It?	Week 5 Sep 18-21	Drawing Triangles With Rulers and Protractors			
	7.7	17	End Assessment					
Scale Drawings, Dilations, and Similarity	7.1.2	17	Scaling Robots		Lengths and Scaled Copies			
	7.1.3	18	Make It Scale		Drawing Scaled Copies			
	7.1.6	19	Introducing Scale		Comparing Scale Factor and Scale			
	7.1.7	20	Will It Fit?	Week 6 Sep 25-28	Scale Drawings			
	7.1.9	21	Scaling Buildings		Creating Scale Drawings			
	7.1	22	Quiz					
	8.2.1	22	Sketchy Dilations		Exploring Dilations and Similarity			
	8.2.2	23	Dilation Mini Golf		Dilations With No Grid			
	8.2.3	24	Match My Dilation	Week 7 Oct 2-5	Dilations on a Square Grid			
	8.2.4	25	Dilations on a Plane		Dilations with Coordinates			
	8.2.5	26	Transformation Golf With Dilations		Dilations and Similarity			
	8.2.6	27	Social Scavenger Hunt		Similar Polygons			
	8.2.7	28	Are Angles Enough?	Week 8 Oct 9-12	Similar Triangles			
	8.2.8	29	Shadows		Side Length Quotients in Similar Triangles			
	8.2.9	30	Water Slide		Slope of Lines			
	8.2	31	End Assessment					
Writing and Solving Equations and Inequalities	7.6.1	31	Toothpicks and Tiles		Nonproportional Relationships			
	7.6.2/3	32	Smudged Receipts / Equations	Week 9 Oct 16-19	Representing Contexts With Tape Diagrams and Equations			
	7.6.4	33	Seeing Structure		Practice With Tape Diagrams and Equations			
	7.6.5	34	Balancing Moves		Introduction to Balanced Hangers			
	7.6.6	35	Balancing Equations		Solving Equations With Balanced Hangers			
	7.6.7	36	Keeping It True	Week 10 Oct 23-26	Solving Equations			
	7.6.8	37	Factoring and Expanding		Options for Solving One Equation			
	7.6.9	38	Always-Equal Machines		Equivalent Expressions			
	7.6.10	39	Collect the Squares		Adding Expressions			
	7.6.11	40	Equation Roundtable	Week 11 Oct 30-Nov 2	Solving Equations by Adding Terms and Expanding			
	7.6.12	41	Community Day		Using Equations to Solve Problems			
	7.6	42	Quiz					
	8.4.3	42	Balanced Moves		Balancing Moves and Undoing			
	8.4.4	43	More Balanced Moves		Solving Linear Equations Part 1			
	8.4.1	44	Number Machines	Week 12 Nov 6-9	Solving Linear Equations Part 2			
	8.4.6	45	Strategic Solving		Solving Linear Equations Part 3			
	8.4.7	46	All, Some, or None?		Equations With One, Many, or No Solutions			
	8.4.8	47	When Are They the Same?		Solving Linear Equations in Context			
	8.4	48	Quiz					
	6.7.6	48	Tunnel Travels	Week 13 Nov 13-16	Graphing Inequalities			
	6.7.7	49	Comparing Weights		Writing Inequalities			
	6.7.8	50	Shira's Solutions		Solutions to Inequalities			
	7.6.14	51	Unbalanced Hangers		Solutions to Inequalities			
	7.6.15	52	Budgeting	Week 14 Nov 27-30	Solving Inequalities in Context			
	7.6.16	53	Shira the Sheep		Solving Inequalities With Positive and Negative Numbers			
	7.6.17	54	Write Them and Solve Them		Modeling With Inequalities			
	7.6	55	End Assessment					
Linear Relationships and Systems of Equations	8.3.1	55	Turtle Time Trials		Understanding Proportional Relationships			
	8.3.2	56	Water Tank	Week 15 Dec 4-7	Graphs of Proportional Relationships			
	8.3.3	57	Posters		Comparing Proportional Relationships			
	8.3.4	58	Stacking Cups		Introduction to Linear Relationships			
	8.3.5	59	Flags		Representations of Linear Relationships			
	8.3.6	60	Translations	Week 16 Dec 11-14	Translating y=mx+b			
	8.3.7	61	Water Cooler		Slopes Don't Have to Be Positive			
	8.3.8	62	Landing Planes		Calculating Slope			
	8.3.9	63	Coin Capture		Equations of All Kinds of Lines			
	8.3		Quiz					
			Semester Ends					

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Unit	#	Lesson	Title	Week	Topic	Date Completed	Practice Problems Completed?	Rate your mastery on a scale of 1-10
Linear Relationships and Systems of Equations	8.3.10	64	Solutions	Week 1 Jan 16-18	Solutions to Linear Equations			
	8.3.11	65	Pennies and Quarters		Using Linear Equations to Solve Problems			
	8.4.9	66	On or Off the Line?		Interpreting Points On or Off the Line			
	8.4.10	67	On Both Lines	Week 2 Jan 22-25	Representing Systems of Linear Equations			
	8.4.11	68	Make Them Balance		Graphing Systems of Linear Equations			
	8.4.12	69	Line Zapper		Solving Systems of Linear Equations			
	8.4.13	70	All, Some, or None? Part 2		Systems of Equations With One, Many, or No Solutions			
	8.4.14	71	Strategic Solving Part 2	Week 3 Jan 29-Feb 1	Solving More Systems of Equations			
			End Assessment					
Functions	8.5.1	72	Turtle Crossing		Making Sense of Graphs			
	8.5.2	73	Guess My Rule		Introduction to Functions			
	8.5.3	74	Function or Not?		Graphs of Functions and Non-Functions			
	8.5.4	75	Window Frames	Week 4 Feb 5-8	Functions and Equations			
	8.5.5	76	The Tortoise and the Hare		Interpreting Graphs of Functions			
	8.5.6	77	Graphing Stories		Creating Graphs of Functions			
	8.5.7	78	Feel the Burn		Comparing Representations of Functions			
	8.5.9	79	Piecing It Together	Week 5 Feb 12-15	Modeling With Piecewise linear Functions			
			End Assessment					
Associations in Data	8.6.1	80	Click Battle		Organizing Data			
	8.6.2	81	Wing Span		Plotting Data			
	8.6.3	82	Robots		What a Point on a Scatter Plot Means			
	8.6.4	83	Dapper Cats	Week 6 Feb 20-22	Lines of Fit and Outliers			
	8.6.5	84	Fit Fights		Fitting a Line to Data			
	8.6.6	85	Interpreting Slopes		The Slope of a Fitted Line			
	8.6.7	86	Scatter Plot City	Week 7 Feb 26-29	Observing More Patterns in Plots			
	8.6.8	87	Animal Brains		Analyzing Bivariate Data			
	8.6.9	88	Tasty Fruit		Two-Way Tables and Bar Graphs			
	8.6.10	89	Finding Associations		Using Data Displays to Find Associations			
	8.6.11	90	Federal Budgets	Week 8 Mar 4-7	Creating Data Representations			
			End Assessment					
Volume and Surface Area	7.7.9	91	Slicing Solids		Describing Cross Sections			
	7.7.10	92	Simple Prisms		Using Base Area to Calculate Volume			
	7.7.11	93	More Complicated Prisms		Calculating Volumes of Right Prisms			
	7.7.12	94	Surface Area Strategies	Week 9 Mar 11-14	Surface Area of Right Prisms			
	8.5.10	95	Volume Lab		Exploring Volume			
	8.5.11	96	Cylinders		The Volume of a Cylinder			
	8.5.12	97	Scaling Cylinders		Scaling Cylinders Using Functions			
	8.5.13	98	Cones	Week 10 Mar 18-21	Volume of Cones			
	8.5.15	99	Spheres		Volume of Spheres			
	7.7.13	100	Popcorn Possibilities		Applying Volume and Surface Area			
			End Assessment					
		101	Catch Up Day		TBD			
Exponents and Scientific Notation	8.7.1	102	Circles	Week 11 Apr 1-4	Exponent Review			
	8.7.2	103	Combining Exponents		Equivalent Expressions With Exponents			
	8.7.4	104	Rewriting Powers		Rewriting Exponential Expressions as a Single Power			
	8.7.5	105	Zero and Negative Exponents		Using Patterns to Understand Zero and Negative Exponents			
			Quiz					
	8.7.7	106	Scales and Weights	Week 12 Apr 8-11	Describing Large and Small Numbers Using Powers of 10			
	8.7.8	107	Point Zapper		Representing Large and Small Numbers on the Number Line			
	8.7.9	108	Use Your Powers		Applications of Arithmetic With Powers of 10			
	8.7.10	109	Solar System		Definition of Scientific Notation			
	8.7.11	110	Balance the Scale	Week 13 Apr 15-18	Multiplying, Dividing, and Estimating With Scientific Notation			
	8.7.12	111	City Lights		Adding and Subtracting With Scientific Notation			
	8.7.13	112	Star Power		Let's Put It to Work			
			End Assessment					
Pythagorean Theorem and Irrational Numbers	8.8.1	113	Tilted Squares		The Areas of Tilted Squares			
	8.8.2	114	From Squares to Roots	Week 14 Apr 22-25	Side Lengths and Areas			
	8.8.3/4	115	Between Squares / Root Down		Approximating Square Roots			
	8.8.5	116	Filling Cubes		Edge Lengths, Volumes, and Cube Roots			
	8.8.6	117	The Pythagorean Theorem		Exploring Squares in Right Triangles			
	8.8.7	118	Picture to Prove It	Week 15 Apr 30-May 2	Triangle-Tracing Turtle			
	8.8.8	119	Triangle-Tracing Turtle		Finding Unknown Side Lengths			
	8.8.9	120	Make It Right		The Converse of the Pythagorean theorem			
	8.8.10	121	Taco Truck		Applications of the Pythagorean theorem			
	8.8.11	122	Pond Hopper	Week 16 May 6-9	Finding Distances in the Coordinate Plane			
	7.4.13/ 8.8.12	123	Decimal Deep Dive / Fractions to Decimals		Decimal Representations of Rational Numbers			
	8.8.13	124	Decimals to Fractions		Infinited Decimal Expansions			
	8.8.14	125	Hit the Target		Rational and Irrational Numbers			
			End Assessment					