Unit	GCG	Khan A	cademy Videos
		*	Understanding square roots
		*	Finding cube roots
	1 of 1	*	Introduction to rational and irrational numbers
		*	Recognizing irrational numbers
		*	Approximating irrational number exercise example
1 – Rational and Irrational		*	Fraction to decimal
Numbers		*	Converting fractions to decimals
Numbers		*	Converting a fraction to a repeating decimal
		*	Converting repeating decimals to fractions 1
		*	Converting repeating decimals to fractions 2
		*	Converting decimals to fractions 2 (ex 1)
		*	Converting decimals to fractions 2 (ex 2)
		*	Writing simple algebraic expressions
		*	Writing algebraic expressions
		*	Writing algebraic expressions word problem
		*	Variables on both sides
		*	Example 1: Variables on both sides
	1 of 1	*	Example 2: Variables on both sides
		*	Equation special cases
2 – Solving Multi-Step		*	Ex 2: Multi-step equation
Equations		*	Solving equations with the distributive property
-4		*	Solving equations with the distributive property 2
		*	Ex 1: Distributive property to simplify
		*	Ex 2: Distributive property to simplify
		*	Ex 3: Distributive property to simplify
		*	Number of solutions to linear equations
		*	Number of solutions to linear equations ex 2
		*	Number of solutions to linear equations ex 3
		*	Complementary and supplementary angles
3 - Angle – Pair Relationships	1 of 1	*	Find measure of complementary angles
		*	Find measure of supplementary angles
		*	Angles formed by parallel lines and transversals
		*	Figuring out angles between transversal and parallel
			lines
		*	Using algebra to find measures of angles formed from
			transversal
		*	Proof: Sum of measures of angles in a triangle are 180
		*	Triangle angle example 1
		*	Triangle angle example 2
		*	Triangle angle example 3
		*	Challenging triangle angle problem
		*	Finding more angles

Unit	GCG	Khan A	cademy Videos
		*	The Pythagorean theorem intro
4 – Pythagorean Theorem		*	Pythagorean theorem
	1 of 1	*	Pythagorean theorem 2
		*	Pythagorean theorem 1
		*	Pythagorean theorem 3
		*	Thiago asks: How much time does a goalkeeper have to
			react to a penalty kick?
		*	Pythagorean theorem in 3D
		*	Find the volume of a triangular prism and cube
	1 of 1	*	Cylinder volume and surface area
5 - Volume		*	Volume of a cone
		*	Volume of a sphere
		*	Introduction to exponents
		*	Exponent example 1
		*	Exponent example 2
		*	Exponent properties involving products
		*	Exponent properties involving quotients
6 – Properties of Exponents		*	Products and exponents raised to an exponent
	1 of 1		properties
		*	Exponent rules part 1
		*	Exponent rules part 2
		*	Negative exponents
		*	Zero, negative, and fractional exponents
		*	Introduction to scientific notation
		*	Scientific notation
		*	Scientific notation examples
		*	Scientific notation example 1
	1 of 1	*	Scientific notation example 2
7 – Scientific Notation		*	Multiplying and dividing in scientific notation
		*	Multiplying in scientific notation
		*	Multiplying in scientific notation example
			Dividing in scientific notation example
		*	Translations of polygons
	1 of 2	*	Determining a translation for a shape
		*	Reflection and mapping points example
		*	Rotation of polygons example
		*	Performing a rotation to match figures
8 – Transformations		*	Rotating segment about origin example
		*	Testing congruence by transformations example
		*	Another congruence by transformation example
		*	Testing similarity through transformations
		*	Similar triangles
		*	
	2 of 2	*	Scaling down a triangle by half

Unit	GCG	Khan A	Academy Videos
	1 of 2	*	What is a function?
	1012	*	Difference between equations and functions
		*	Evaluating with function notation
		*	Understanding function notation (example 1)
		*	Understanding function notation (example 2)
		*	Understanding function notation (example 3)
		*	Relations and functions
		*	Testing if a relationship is a function
		*	Domain and range of a relation
9 – Introduction to Functions		*	Domain and range of a function
		*	Domain and range 1
		*	Graphical relations and functions
		*	Domain and range from graphs
		· ·	
		*	Comparing linear functions
	2 of 2	*	Comparing linear functions 1
	2012	*	Comparing linear functions 2
		*	Comparing linear functions 3
		*	Slope of a line
		*	Slope of a line 2
		*	Slope of a line 3
		*	Graphical slope of a line
		*	Slope example
		*	Graphing proportional relationships example
		*	Graphing proportional relationships example 2
	1 of 3	*	Graphing proportional relationships example 3
		*	Constructing an equation for a proportional
			<u>relationship</u>
		*	Slope and rate of change
		*	Constructing and interpreting a linear function
		*	Constructing a linear function word problem
		*	Constructing linear graphs
		*	Interpreting intercepts of linear functions
10 – Applications of Functions		*	Interpreting linear functions example
		*	Graphing a line in slope intercept form
		*	Multiple examples of constructing linear equations in
			slope-intercept form
		*	Interpreting linear functions example
		*	Interpreting intercepts of linear functions
	2 of 3	*	Analyzing and identifying proportional relationships
		*	Analyzing proportional relationships in a graph
		*	Analyzing proportional relationships from a table
		*	Comparing proportional relationships
		*	Recognizing linear functions
		*	Linear and nonlinear functions (example 1)
		*	Linear and nonlinear functions (example 2)
		*	Linear and nonlinear functions (example 3)
		*	Constructing a scatter plot
	3 of 3	*	Interpreting a trend line
	-	*	Estimating the line of best fit exercise

Unit	GCG	Khan Academy Videos
11 – Systems of Linear Equations	1 of 1	 Solving linear systems by graphing Solving systems of equations Graphical systems of equations Graphical systems application problem Example 2: Graphically solving systems Example 3: Graphically solving systems Testing a solution for a system of equations The substitution method Substitution method 2 Substitution method 3 Example 1: Solving systems by substitution Example 2: Solving systems by substitution Example 3: Solving systems by substitution Example 3: Solving systems by substitution Example 1: Solving systems by elimination Example 2: Solving systems by elimination Example 2: Solving systems by elimination Example 2: Solving systems by elimination Example 3: Solving systems by elimination Example 3: Solving systems by elimination Addition elimination method 1 Addition elimination method 3 Addition elimination method 4 Using a system of equations to find the price of apples and oranges Linear systems word problem with substitution Systems of equation to realize you are getting ripped off Thinking about multiple solutions to a system of equations
12 – Statistical Tables	1 of 1	 Two-way frequency tables and Venn diagrams Two-way relative frequency tables Interpreting two way tables Analyzing trends in categorical data

Unit	GCG	Khan Academy Videos
		Writing simple algebraic expressions
		 Writing algebraic expressions
		 Writing algebraic expressions word problem
		 <u>Variables on both sides</u>
		 Example 1: Variables on both sides
		 Example 2: Variables on both sides
		 Equation special cases
		Ex 2: Multi-step equation
	1 of 3	 Solving equations with the distributive property
		 Solving equations with the distributive property 2
		Ex 1: Distributive property to simplify
		Ex 2: Distributive property to simplify
		 <u>Ex 3: Distributive property to simplify</u>
		 <u>Number of solutions to linear equations</u>
		Number of solutions to linear equations ex 2
		 <u>Number of solutions to linear equations ex 3</u>
13 – Algebra Readiness		 <u>Constructing and interpreting a linear function</u>
		 Constructing a linear function word problem
		 <u>Constructing linear graphs</u>
		 Interpreting intercepts of linear functions
		 Interpreting linear functions example
	2 of 3	 Graphing a line in slope intercept form
		 Multiple examples of constructing linear equations in
		slope-intercept form
		 Interpreting linear functions example
		 Interpreting intercepts of linear functions
		 Solving linear systems by graphing
		 Solving systems graphically
		 Graphing systems of equations
	3 of 3	 Graphical systems application problem
		 Example 2: Graphically solving systems
		Example 3: Graphically solving systems
		Testing a solution for a system of equations