Course Topic	Khan Videos	Khan Practice Sets	Core Standard(s)	Applied Tasks
Arithmetic				
Adding/Subtracting Integers	Adding Integers With Different Signs Adding Negative Numbers	Adding Negative Numbers Adding and Subtracting Negative Numbers	CCSS.Math.Content.7.NS.A.1c CCSS.Math.Content.7.NS.A.1d	The Locker Problem
Multiplying/Dividing Integers	Multiplying Negative Real Numbers Dividing Positive and Negative Numbers Multiplying Numbers With Different Signs	Multiplying and Dividing Negative Numbers Negative Number Word Problems	CCSS.Math.Content.7.NS.A.2a CCSS.Math.Content.7.NS.A.2b	
Rounding Numbers	Rounding Decimals	Rounding Numbers	CCSS.Math.Content.5.NBT.A.4	
Number Line	Points on a Number Line	Decimals on the Number Line	CCSS.Math.Content.6.NS.C.6	
Square Roots	Approximating Square Roots	Square Roots Square Roots 2	CCSS.Math.Content.8.EE.A.2	
Prime and Composite Numbers	Prime Numbers Recognizing Prime Numbers	Prime Numbers Composite Numbers	CCSS.Math.Content.4.OA.B.4	
Divisibility Tests	Divisibility Tests	Divisibility Tests	CCSS.Math.Content.4.OA.B.4	
Prime Factorization	Prime Factorization	Prime Factorization	CCSS.Math.Content.4.OA.B.4	
Fractions	Identifying Fraction Parts (conceptual help)	Fraction Word Problems (conceptual help)		
Adding/Subtracting Fractions	Adding and Subtracting Fractions	Adding and Subtracting Fractions	CCSS.Math.Content.5.NF.A.1	Multiplying Fractions Word Problems
Multiplying Fractions	Multiplying Fractions	Multiplying Fractions	CCSS.Math.Content.5.NF.B.4	Dividing Fractions Word Problems
Dividing Fractions	Dividing Fractions	Dividing Fractions	CCSS.Math.Content.6.NS.A.1	
Decimals and Percents				
Place Value	Decimal Place Value	Understanding Decimal's Place Value	CCSS.Math.Content.5.NBT.A.3	Adding and Subtracting Decimals Word Problems
Adding/Subtracting Decimals	Adding Decimals Subtracting Decimals	Adding Decimals Subtracting Decimals	CCSS.Math.Content.6.NS.B.3	
Multiplying/Dividing Decimals	Multiplying Decimals Dividing Decimals	Multiplying Decimals Dividing Decimals 2	CCSS.Math.Content.6.NS.B.3	Money Word Problem
Solving Percent Problems	Describing the Meaning of Percent Taking Percentages	Percentage Word Problems 1 Percentage Word Problems 2	CCSS.Math.Content.6.RP.A.3c	
Equating Decimals, Percents, Fractions	Representing a Number as a Decimal, Percent, and Fraction	Converting Decimals to Fractions 1 Converting Decimals to Percents	CCSS.Math.Content.6.NS.A.1	
Writng and Solving Proportions	Writing Proportions	Writing Proportions	CCSS.Math.Content.7.RP.A.2a CCSS.Math.Content.7.RP.A.2c	
Simplifying Rates and Ratios	Simplifying Rates and Ratios	Ratio Word Problems	CCSS.Math.Content.7.RP.A.2a CCSS.Math.Content.7.RP.A.2b	
Real Numbers				
Properties of Real Numbers	Commutative Law of Addition Associative Law of Multiplication	Properties of Numbers 1 Number Properties Terminology	CCSS.Math.Content.6.EE.A.3	

Types of Numbers (Integers, Rational…)	Number Sets		CCSS.Math.Content.8.EE.A.2	
Absolute Value	Absolute Value and Number Lines	Absolute Value	CCSS.Math.Content.6.NS.C.7c	
Order of Operations/Simplifying Exp.	Order of Operations 1	Order of Operations	CCSS.Math.Content.7.EE.A.1	

Algebraic Expressions

Defining and Using Variables	What is a Variable?		CCSS.Math.Content.6.EE.A.2	
Evaluating Algebraic Expressions	Evaluating Expressions With Two Variables	Evaluating Expressions in One Variable Evaluating Expressions in Two Variables	CCSS.Math.Content.6.EE.A.2c	
Translating words into Algebra		Writing Expressions 1 Writing Expressions 2	CCSS.Math.Content.6.EE.A.2a	
Using Formulas	Rearrange Formulas to Isolate a Variable Solving for a Variable Solving for a Variable 2	Solving Equations in Terms of a Variable	CCSS.Math.Content.HSA-CED.A.4	

Exponents and Roots

Multiplying/Dividing Monomials	Multiplying and Dividing Monomials 1 Multiplying and Dividing Monomials 2 Multiplying and Dividing Monomials 3	Simplifying Rational Expressions 1	CCSS.Math.Content.8.EE.A.1	
Evaluating Rational Exponents/Roots	Radical Equivalent to Rational Exponents	Exponents	CCSS.Math.Content.HSN-RN.A.1	
Monomials with Negative Exponents	Simplifying Expressions With Exponents Simplifying Expressions With Exponents 2	Simplifying Expressions With Exponents	CCSS.Math.Content.8.EE.A.1	
Simplifying Roots	Simplifying Square Roots Radical Equivalent to Rational Exponents 2	Simplifying Radicals	CCSS.Math.Content.8.EE.A.2	
Multiplying/Dividing Roots	Multiply and Simplify a Radical Expression 1 Multiply and Simplify a Radical Expression 2	Multiplying Radicals	CCSS.Math.Content.8.EE.A.2	
Adding/Subtracting Roots	Adding and Simplifying Radicals Subtracting and Simplifying Radicals	Adding and Subtracting Radicals	CCSS.Math.Content.8.EE.A.2	
Scientific Notation	Scientific Notation Examples Scientific Notation Example 1 Scientific Notation Example 2	Scientific Notation Multiplying and Dividing Scientific Notation	CCSS.Math.Content.8.EE.A.4	
Radical Equations	Solving Radical Equations Solving Radical Equations 1	Radical Equations	CCSS.Math.Content.HSA-REI.A.2	

	Solving Radical Equations 2 Solving Radical Equations 3			
Polynomials				
Adding/Subtracting Polynomials	Adding and Subtracting Polynomials 1 Adding Polynomials With Multiple Variables	Adding and Subtracting Polynomials	CCSS.Math.Content.HSA-APR.A.1	
Multiplying Polynomials	Multiplying Binomials Multiplying Polynomials	Multiplying Polynomials Multiplying Expressions Multiplying Expressions 1	CCSS.Math.Content.HSA-APR.A.1	
Distributive Property	Multiplying Monomials by Polynomials		CCSS.Math.Content.HSA-APR.A.1	
Factoring Polynomials	Factoring Quadratic Expressions Factoring Polynomials 1 Factoring Trinomials With a Common Factor Factoring Difference of Squares	Factoring Polynomials 1 Factoring Polynomials With Two Variables Factoring Difference of Squares 2	CCSS.Math.Content.HSA-SSE.B.3a	
Dividing Polynomials	Dividing Polynomials With Remainders Dividing Polynomials 1	Dividing Polynomials by Binomials 1 Dividing Polynomials by Binomials 2 Dividing Polynomials by Binomials 3	CCSS.Math.Content.HSA-APR.D.6	
Solving Equations and Inequalities				
Solving Linear Equations	Solving One-Step Equations Two-Step Equations Multi-Step Equation Example Solving Equations With the Distributive Property	One-Step Equations Linear Equations 2 Multi-Step Equations With Distribution	CCSS.Math.Content.HSA-CED.A.1 CCSS.Math.Content.HSA-REI.A.2 CCSS.Math.Content.HSA-REI.B.3	
Solving Linear Inequalities	One-Step Inequalities Equations and Inequalities Multi-Step Inequalities 3	One-Step Inequalities Linear Inequalities	CCSS.Math.Content.HSA-CED.A.1 CCSS.Math.Content.HSA-REI.B.3	
Solving Quadratics by Factoring	Solving a Quadratic by Factoring Solving a Quadratic by Factoring 2	Solving Quadratics by Factoring Solving Quadratics by Factoring 2	CCSS.Math.Content.HSA-SSE.B.3a CCSS.Math.Content.HSA-CED.A.1 CCSS.Math.Content.HSA-REI.B.4	
Graphing Quadratics	Graphing a Quadratic Function Graphs of Quadratic Functions	Graphs of Quadratic Functions	CCSS.Math.Content.HSA-APR.B.3	
Solving Quad. by Completing the Square	Solving Quadratics by Completing the Square	Completing the Square 1 Completing the Square 2	CCSS.Math.Content.HSA-SSE.B.3b CCSS.Math.Content.HSA-REI.B.4a	
Using the Quadratic Formula	Using the Quadratic Formula Quadratic Formula Application Problem	Quadratic Equation	CCSS.Math.Content.HSA-REI.B.4b	
Graphs and Linear Functions				
Graphing Lines	Graphing Lines 1 Plotting x-y relationships	Identifying Points 2 Graphing Linear Equations	CCSS.Math.Content.HSA-REI.D.10	

	Graphs of Linear Equations			
Writing Equations of Lines	Equation of a Line 1 Equation of a Line- Hairier Example Equation of a Line 3	Slope-Intercept Form Equation of a Line	CCSS.Math.Content.8.F.B.4	
Slopes and Intercepts	x and y intercepts x and y intercepts 2 Slope of a Line Graphical Slope of a Line	Solving for the y-intercept Solving for the x-intercept Slope of a Line	CCSS.Math.Content.HSA-REI.D.11	
Parallel and Perpendicular Lines	Parallel Line Equation Perpendicular Line Slope Equations of Parallel and Perpendicular Lines Parallel Lines 2	Line Relationships		
Scatter Plots and Lines of Best Fit	Fitting a Line to Data	Plotting the Line of Best Fit	CCSS.Math.Content.8.SP.A.1 CCSS.Math.Content.8.SP.A.2	
Graphing Inequalities	Graphing Linear Inequalities in Two Variables 2 Graphing Linear Inequalities in Two Variables 3	Graphs of Inequalities Graphing Inequalities 2	CCSS.Math.Content.HSA-REI.D.12	
Word Problems with Linear Equations	Basic Linear Equation Word Problems	Linear Equation Word Problems	CCSS.Math.Content.HSA-CED.A.1	
Systems of Equations				
Solving Linear Systems by Graphing	Solving Systems Graphically	Graphing Systems of Equations	CCSS.Math.Content.HSA-CED.A.2 CCSS.Math.Content.HSA-REI.C.6	
Solving Linear Systems by Elimination	Solving Systems of Equations by Elimination Solving Systems of Equations by Multiplication	Systems of Equations with Elimination 0.5 Systems of Equations with Elimination	CCSS.Math.Content.HSA-CED.A.2 CCSS.Math.Content.HSA-REI.C.5	
Solving Linear Systems by Substitution	The Substitution Method Substitution Method 2 Substitution Method 3 Solving Systems by Substitution 2	Systems of Equations with Substitution	CCSS.Math.Content.HSA-CED.A.2	
Graphing Systems of Inequalities	Graphical Systems of Inequalities Graphing Systems of Inequalities 2 Graphing Systems Word Problem	Graphing Systems of Inequalities Graphing Systems of Inequalities 2	CCSS.Math.Content.HSA-CED.A.2	
Solving Quadratic Systems	Non-Linear Systems of Equations 1 Non-Linear Systems of Equations 2 Non-Linear Systems of Equations 3		CCSS.Math.Content.HSA-REI.C.7	
Systems of Equations Word Problems	Algebraic Word Problem Mixture Problems 1 Systems and Rate Problems Problem Solving Word Problems	Systems of Equations Word Problems	CCSS.Math.Content.HSA-CED.A.2 CCSS.Math.Content.HSA-CED.A.3	

Functions

Definition of Function	Intro to Functions Functional Relationships 1 Testing if a Relationship is a Function		CCSS.Math.Content.HSF-IF.A.1	
Evaluating Functions	Function Example Problems Evaluating a Function		CCSS.Math.Content.HSF-IF.A.2	
Graphs of Functions	Functions as Graphs Graphing a Basic Function	Understanding Graphs of Functions Views of a Function	CCSS.Math.Content.HSF-IF.C.7	
Domain and Range	Domain of a Function Domain and Range of a Relation Domain and Range of a Function Given a Formula	Domain of a Function Range of a Function Domain and Range	CCSS.Math.Content.HSF-IF.B.5	
Operations on Functions	Functions Part 2 Sum of Functions Difference of Functions Product of Functions Quotient of Functions	Evaluating Expressions With Function Notation Evaluating Composite Functions	CCSS.Math.Content.HSF-BF.A.1b CCSS.Math.Content.HSF-BF.A.1c	
Inverse Functions	Introduction to Function Inverses Function Inverse Example 1 Function Inverse Example 2 Function Inverse Example 3	Inverses of Functions	CCSS.Math.Content.HSF-BF.B.4	

Rational Expressions

Simplifying Rational Expressions	Simplifying Rational Expressions 2 Simplifying Rational Expressions 3	Simplifying Rational Expressions 2 Simplifying Rational Expressions 3	CCSS.Math.Content.HSA-APR.D.7	
Multiplying/Dividing Rat'l Expressions	Multiplying and Dividing Rational Expressions 2 Multiplying and Dividing Rational Expressions 3		CCSS.Math.Content.HSA-APR.D.7	
Adding/Subtracting Rat'l Expressions	Adding and Subtracting Rational Expressions Adding and Subtracting Rational Expressions 2 Adding and Subtracting Rational Expressions 3 Simplifying First for Subtracting Rational Expressions		CCSS.Math.Content.HSA-APR.D.7	
Simplifying Complex Fractions			CCSS.Math.Content.HSA-APR.D.7	
Solving Rational Equations	Solving Rational Equations Solving Rational Equations 2		CCSS.Math.Content.HSA-CED.A.1	Applying Rational Equations 1

	Solving Rational Equations 3			Applying Rational Equations 2 Applying Rational Equations 3

Geometry and Measurement

Scale and Measurement			CCSS.Math.Content.3.MD.B.3 CCSS.Math.Content.5.MD.A.1	Geometry Word Problems from fi.edu
Area, Perimeter, Circumference	Perimeter and Area Basics Area and Perimeter Radius, Diameter and Circumference Area of a Circle	Area 1 Area of Squares and Rectangles Area of Triangles 1 Perimeter 1 Perimeter of Squares and Rectangles Radius, Diameter and Circumference Area of a Circle Area, Perimeter and Volume	CCSS.Math.Content.HSG-MG.A.1	
Pythagorean Theorem	The Pythagorean Theorem Pythagorean Theorem 2	Pythagorean Theorem	CCSS.Math.Content.8.G.B.7	
Find Volume of Solids	Solid Geometry Volume	Solid Geometry	CCSS.Math.Content.HSG-GMD.A.3	
Convert English/metric units	Applying the Metric System Unit Conversion Converting Units of Length	Units	CCSS.Math.Content.6.RP.A.3d	
Word Problems in Geometry			CCSS.Math.Content.HSG-MG.A.3	

Statistics

Calculate Mean, Median, and Mode	Statistics Intro Mean, Median and Mode	Mean, Median and Mode Exploring Mean and Median	CCSS.Math.Content.HSS-ID.A.2	
Mean/Average Word Problems	Exploring Mean, Median and Mode	Average Word Problems	CCSS.Math.Content.HSS-ID.A.2	
Interpret Graphs and Charts	Reading Bar Graphs Histograms Reading Line Graphs Reading Circle Graphs Reading Pictographs	Reading Bar Charts 1 Creating Bar Charts 1 Reading Bar Charts 2 Reading Bar Charts 3 Reading Line Charts 1 Reading Stem and Leaf Plots Reading Pictographs 1 Reading Pictographs 2	CCSS.Math.Content.HSS-ID.A.1	