

Alignment of Accuplacer Math Topics with Khan Academy and the Common Core

Revised July 2014

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 Number Rules
Multiplying/Dividing Integers	Multiplying Positive and Negative 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	Never Prime Divisibility Problem
Rounding Numbers	Rounding Decimals	Rounding Numbers	CCSS.Math.Content.5.NBT.A.4	Adding and Subtracting Signed Numbers
Number Line	Points on a Number Line Positive and Negative Decimals on a Number Line	Decimals on the Number Line 1 Decimals on the Number Line 2 Decimals on the Number Line 3	CCSS.Math.Content.6.NS.C.6	
Square Roots	Approximating Square Roots	Square Roots Estimating Square Roots	CCSS.Math.Content.8.EE.A.2	
Fractions				
Ordering Fractions	Plotting Fractions on the Number Line	Fractions on the Number Line	CCSS.Math.Content.3.NF.A.2	Multiplying Fractions Word Problems
Adding/Subtracting Fractions	Adding and Subtracting Fractions Adding Fractions with Different Signs	Adding and Subtracting Fractions	CCSS.Math.Content.5.NF.A.1	Dividing Fractions Word Problems
Multiplying Fractions	Multiplying Fractions Multiplying Negative and Positive Fractions	Multiplying Fractions	CCSS.Math.Content.5.NF.B.4	Fair Shares- Open-Ended Word Problem
Dividing Fractions	Dividing Fractions Example Dividing Fractions by Fractions	Dividing Whole Numbers by Fractions Dividing Fractions by Fractions	CCSS.Math.Content.6.NS.A.1	Fractions Jigsaw
Decimals and Percents				
Place Value	Decimal Place Value Comparing Decimal Place Value	Understanding Decimal's Place Value Comparing Decimal Place Value	CCSS.Math.Content.5.NBT.A.3	Adding and Subtracting Decimals Word Problems
Adding/Subtracting Decimals	Adding Decimals 1 Adding Decimals 2 Adding Decimals 3	Adding Decimals 1 Adding Decimals 2 Subtracting Decimals 1	CCSS.Math.Content.6.NS.B.3	(Khan)

	Subtracting Decimals	Subtracting Decimals 2		More Adding and Subtracting Decimals Word Problems Money Word Problems Another Money Word Problem Ratios Game Math in Special Effects: Ratios Problem
Multiplying/Dividing Decimals	Multiplying Decimals Multiplying Decimals- More Involved Dividing Decimals Dividing Decimal Numbers	Multiplying Decimals 1 Multiplying Decimals 2 Multiplying Decimals 3 Dividing Decimals 1 Dividing Decimals 2 Dividing Decimals 3	CCSS.Math.Content.6.NS.B.3	
Solving Percent Problems	Describing the Meaning of Percent Taking Percentages Percent Word Problems	Percentage Word Problems 1	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 Converting Percents to Decimals	CCSS.Math.Content.6.NS.A.1	
Writing and Solving Proportions	Writing Proportions Finding an Unknown in a Proportion Using Proportions to Solve Problems	Writing Proportions Solving Proportions 1 Using Proportions to Solve Problems	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				
Absolute Value	Absolute Value and Number Lines Absolute Value Word Problems	Finding Absolute Value Absolute Value Word Problems	CCSS.Math.Content.6.NS.C.7c	Working with Irrational Numbers
Order of Operations/Simplifying Exp.	Order of Operations 1 Order of Operations- More Complicated	Order of Operations Order of Operations with Negative Numbers	CCSS.Math.Content.7.EE.A.1	
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	Ponzi Schemes Problem Big and Small Numbers in the Physical World Negative Power
Evaluating Rational Exponents/Roots	Radical Equivalent to Rational Exponents Simplifying with Exponent Properties Negative Fractional Exponent Examples	Understanding Fractional Exponents Manipulating Fractional Exponents Negative Fractional Exponents	CCSS.Math.Content.HSN-RN.A.1	

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	Finding Factors Difference of Squares Exploration (Plus/Minus) Roots of Polynomials (Poly Fibs) Polynomial Relations
Multiplying Polynomials	Multiplying Binomials Multiplying Polynomials	Multiplying Polynomials Multiplying Binomials 1 Multiplying Binomials 2	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	
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 2-step Equations 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	Predicting Sports Records Sky High Scrappers Kitchen Paraboloids (Quadratics Problem) Agile Algebra: Challenging Equations
Solving Linear Inequalities	One-Step Inequalities Interpreting Inequalities with Examples Multi-Step Inequalities 3	One-Step Inequalities Multi-Step 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 Recognizing a Perfect Square Quadratic	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 Graphing Parabolas in Vertex Form	CCSS.Math.Content.HSA-APR.B.3	
Graphs and Linear Functions				
Word Problems with Linear Equations	Basic Linear Equation Word Problems	Linear Equation Word Problems	CCSS.Math.Content.HSA-CED.A.1	Restaurant Management Problem Temperature Equation
Geometry and Measurement				
Scale and Measurement	Interpreting Scale Drawings Constructing Scale Drawings	Interpreting Scale Drawings Constructing Scale Drawings	CCSS.Math.Content.3.MD.B.3 CCSS.Math.Content.5.MD.A.1	Geometry Word Problems from fi.edu
Area, Perimeter,	Perimeter and Area Basics	Area of Triangles 1	CCSS.Math.Content.HSG-MG.A.1	

Circumference	Finding Dimensions from Area and Perimeter Radius, Diameter and Circumference Area of a Circle	Area of Triangles 2 Area of Squares and Rectangles Perimeter 1 Perimeter of Squares and Rectangles Radius, Diameter and Circumference Area of a Circle Shaded Areas		Popcorn: Volume of Cylinders Fruit Boxes: Area and Volume Problem
Pythagorean Theorem	The Pythagorean Theorem Intro Pythagorean Theorem 2	Pythagorean Theorem	CCSS.Math.Content.8.G.B.7	