

Math for 7th Grade Summer Bridge: Unit, Topic, and Math CCSS

Activity	Topic(s)	CCSS
Unit 1: "Survival" Set Up		
Survival Guidelines		6.RP.3a Make tables of equivalent ratios relating quantities with whole-number measurements 6.RP.3c Find a percent of a quantity as a rate per 100; solve problems involving finding the whole, given a part and the percent.
Acrostic You	Team builder	
Guild Selection	Setting up teams	
Guild Team Banner	Team banner	
Interactive Notebook	Structure of INB	
Program Goals	Individual goals	
Guild Challenge: Calendar Math	Collaborative problem-solving	
Costa's Levels of Thinking	Levels of thinking	
Fraction-Decimal-Percent Models	Modeling	
Guild Challenge: Fraction-Decimal-Percent	Practice: fraction-decimal-percent	
The Importance of Official Math Language	Vocabulary	
Exit Ticket	Reflections, remaining questions	
Unit 2: Ratios and Proportional Reasoning		
Warm-Up, Unit 2		6.RP.3b Solve unit rate problems including those involving unit pricing and constant speed. 6.RP.3c Find a percent of a quantity as a rate per 100; solve problems involving finding the whole, given a part and the percent. 6.NS.7a Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. 7.RP.3 Use proportional relationships to solve multistep ratio and percent problems.
Word Break	Review of fractional parts	
Domino Conversion Match-Up	Fractions-decimals-percent	
Race to Equivalence	Conceptual understanding of fraction	
Compare and Order Rational Numbers: Focused Notes	Rational numbers	
Snowball Fight: Vocabulary Activity	Fun vocab activity	
Guild Challenge: Triple Match	Fraction-decimal-percent	
Ratio and Proportion Review: Focused Notes	Ratio and proportion	
Guild Challenge: Yucky Proportion Application	Ratio and proportion	
Guild Challenge: Order on the Line	Ordering fractions	
3-2-1 Reflection	Reflection on equivalence	
Unit 3: Rational Number Operations and Concepts, Fractions		
Warm-Up, Unit 3		7.NS.1 Apply and extend previous understanding of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. 7.NS.2 Apply and extend previous understanding of multiplication and division and of fractions to multiply and divide rational numbers 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers.
Addition and Subtraction of Fractions: Focused	Fractions-decimals-percent	
Guild Challenge: 10-Minute Madness	Operations with fractions	
Guild Challenge: Fraction Train	Solving fraction problems	
Guild Challenge: Multiplication Team Relay	Fun review of multiplication facts	
Multiplication of Fractions Using Models	Modeling fractions	
Brain Break: Charades Vocabulary Activity	Team builder	
Guild Challenge: What's the Problem?	Numerical problems to word problems	
Math Task: Cups of Chocolate Chips	Application of fraction operations	
Unit 4: Rational Number Operations and Concepts, Fractions		
Warm-Up, Unit 4		6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions. 7.NS.1 Apply and extend previous understanding of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. 7.NS.2 Apply and extend previous understanding of multiplication and division and of fractions to multiply and divide rational numbers. 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers.
Division of Fractions: What Does It Mean?	Division of fractions	
Putting It All Together	Operations with fractions	
Teach and Go Activity, Part 1	Demonstrate understanding of	
SWAT Vocabulary Game	Vocabulary building	
Teach and Go Activity, Part 2	Student-to-student teaching	
Summarization	Writing summaries	
Fraction Operations BINGO	Operations with fractions	
Guild Challenge: 10-Minute Madness	Fraction operations	

Unit 11: Algebraic Concepts, Measurement		
Warm-up, Unit 11		<p>6.NS.6b Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.</p> <p>6.EE.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.</p> <p>6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.</p>
From Here to There: Vocabulary Review		
Guild Battleship™	Coordinate graphing game	
Measurement and Formulas People Hunt: Give One, Get One	Measurement conversions and formulas	
I See Shapes and Area	Review of 2-D figures	
Decomposing Area	Area of polygons	
Brain Break: Last Detail	Team builder; attention to detail	
Finding Perimeter and Area (and Guild Challenge)	Perimeter and area	
Reflection: Measurements		
Unit 12: Algebraic Concepts, Measurement		
Warm-up Unit 12		<p>6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.</p> <p>7.G.6 Solve real-world and mathematical problems involving area, volume and surface area of two-and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.</p>
Measurement Stations	Polygons; area, perimeter	
Area and Perimeter Super Shapes	Polygons; area, perimeter	
Guild Challenge: Mr. Math's Fantastic Yard	Polygons; compound shapes	
SWAT Formulas & Symbols	Review game	
Exploring Volume (Philosophical Chairs)	Volume and area of rectangular prism; structured class debate	
Guild Challenge: What's Your Grind?	Volume and surface area	
Exit Ticket: 3-D Measurements	Reflection on measurements	
Unit 13: Summer Bridge Review		
Warm-up, Unit 13		All TEKS previously listed
Hot Seat	Vocabulary game	
Horse Race: Interactive Notebook Review	Review of program content	
Brain break: Scrabble Challenge	Team builder	
Around the World	Math problem competition	
Partner to Partner (optional)	Team builder	
Puzzling Problems	Math problem competition	
Project Polygon	Measurement design project	
Vocabulary Relay Race (optional)	Vocabulary building	
Units 14 and 15: Closure and End-of-Bridge Exam		
Warm-Up, Unit 14		All TEKS previously listed
Treasure Hunt	Content review: game format	
End of Bridge Exam		
Warm-Up, Unit 15 Money Challenge		
Bridge Commercial (optional)		
Brain Break- Group Juggle (optional)	Team builder	
Thank-you Note (optional)		
Hand Jive (optional)	Team builder	
Learning Log (optional)		
Brain Break: Funny Fruits and Vegetables	Team builder	
Missing Link Puzzle Page (optional)	Review challenge	
Celebrate Good Times (optional)		