

Math for 7th Grade Summer Bridge Unit, Topic, and TEKS Alignment

Activity	Topic(s)	TEKS
Unit 1: "Survival" Set Up		
Survival Guidelines		6.4 F Represent benchmark fractions and percents such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10 by 10 grids, strip diagrams, number lines, and numbers 6.5 C Use equivalent fractions, decimals, and percents to show equal parts of the same whole
Acrostic You	Team builder	
Tribal Selection		
Tribal Team Banner		
Interactive Notebook	Structure of INB	
Program Goals		
Tribal Challenge: Calendar Math	Collaborative problem-solving	
Costa's Levels of Thinking		
Fraction-Decimal-Percent Models		
Tribal Challenge: Fraction-Decimal-Percent Match-Up		
The Importance of Official Math Language		
Exit Ticket	Reflections, remaining questions	
Unit 2: Ratios and Proportional Reasoning		
Warm-Up, Unit 2		6.2C Locate, compare, and order integers and rational numbers using a number line 6.4 C Give examples of ratios as multiplicative comparisons of two quantities describing the same attribute 6.5 C Use equivalent fractions, decimals, and percents to show equal parts of the same whole 7.4 D Solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems
Word Break	Review of fractional parts	
Domino Conversion Match-Up	Fractions-decimals-percent	
Race to Equivalence	Conceptual understanding of fraction equivalence	
Compare and Order Rational Numbers: Cornell Notes		
Snowball Fight: Vocabulary Activity	Fun vocab activity	
Tribal Challenge: Triple Match	Fraction-decimal-percent	
Ratio and Proportion Review: Cornell Notes		
Tribal Challenge: Yucky Proportion Application	Ratio and proportion	
Tribal 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		6.3 E Multiply and divide positive rational numbers fluently 7.3 A Add, subtract, multiply, and divide rational numbers fluently
Addition and Subtraction of Fractions: Cornell Notes		
Tribal Challenge: 10-Minute Madness	Operations with fractions	
Tribal Challenge: Fraction Train	Solving fraction problems	
Tribal Challenge: Multiplication Team Relay	Fun review of multiplication facts	
Multiplication of Fractions Using Models		
Brain Break: Charades Vocabulary Activity		
Tribal 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		6.3 E Multiply and divide positive rational numbers fluently 7.3 A Add, subtract, multiply, and divide rational numbers fluently
Division of Fractions: What Does It Mean?		
Putting It All Together	Operations with fractions	
Teach and Go Activity, Part 1	Demonstrate understanding of operations and concepts	
SWAT Vocabulary Game		
Teach and Go Activity, Part 2	Student-to-student teaching	
Summarization	Writing summaries	
Fraction Operations BINGO		
Tribal Challenge: 10-Minute Madness	Fraction operations	

Unit 5: Rational Number Operations & Concepts, Integers		
Warm-up, Unit 5		6.3 C Represent integer operations with concrete models and connect the actions with the models to standardized algorithms 6.3 E Multiply and divide positive rational numbers fluently 7.3 A Add, subtract, multiply, and divide rational numbers fluently
Everything Has Its Place	Place value, prime numbers	
Decimal Partner Review	Decimals ↔ words	
Add, Subtract, Multiply, and Divide Decimals: Folding Organizer		
Decimal Scavenger Hunt	Interactive solving decimal problems	
Tribal Challenge: Decimals	Solving decimal problems	
Snake and Humans Story Time	(+) and (-) integers	
Mini Lesson Using 2- Color Counters	Integer problems	
Add and Subtract Integers: Cornell Notes		
Integer Conga Line	Oral explanations of integer rules	
Snakes and Humans Integer Practice	Operations and number lines	
Reflection: Decimals and Integers		
Unit 6: Rational Number Operations & Concepts, Integers		
Warm-up Unit 6		6.3 C Represent integer operations with concrete models and connect the actions with the models to standardized algorithms 6.3 D Add, subtract, multiply, and divide integers fluently
Human Number Line	Operations with integers	
Integer Card Game		
Multiply and Divide Integers: Modeling and Rules		
Brain Break: Choice	Team builder	
Integer Practice	(+) and (-) integers	
Who's the Greatest?	Integer operations card games	
Integer Relay Race	(+) and (-) integers	
Reflection: Learning Log		
Unit 7: Rational Number Operations & Concepts, Order of Operations		
Warm-up Unit 7		6.3 D Add, subtract, multiply, and divide integers fluently 6.7 A Generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization 7.3 A Add, subtract, multiply, and divide rational numbers fluently
Back Me Up: Vocabulary	Vocabulary game	
Order of Operations Review: Cornell Notes		
Does Your Tribe Operate with Order?	Explaining steps in operations	
Word Hunt	Interactive solving integer problems	
Tribal Challenge: Think, Think, Think!	Critical thinking; justifications	
SLAP	Integer operations	
Brain Break: Human Knot	Team builder	
Tribal Challenge: Order of Operations Trasketball	Multistep integer problems (game)	
Error Analysis: Mistaken Mike	Error analysis	
Unit 8: Algebraic Concepts, Expressions		
Unit Plan		6.7 A Generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization 6.7 B Distinguish between expressions and equations verbally, numerically, and algebraically 6.10 A Model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts 7.11 A Model and solve one-variable, two-step equations and inequalities
Warm-up for unit 8		
Writing Algebraic Expressions: Cornell Notes		
Lost in Translation	Matching algebra verbal and symbolic and expressions	
Expression-Problem Match		
Substitution Crossword	Algebraic crossword puzzle	
Reflection: Snowball Fight	Interactive translation of verbal and symbolic expressions	
Reverse Frayer Vocabulary Activity	Representing math vocabulary	
Equations with Cups and Counters	Alg equations with manipulatives	
Exit Ticket	Reflections, remaining questions	

Unit 9: Algebraic Concepts, Equations		
Algebra One- and Two-Step Equations: Cornell Notes		6.9 B Represent solutions for one-variable, one-step equations and inequalities on number lines
Tribal Challenge: Equation Train	Solve equations using substitution	6.10 A Model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts
Human Number Line	Rational numbers	6.11 The student applies mathematical process standards to use coordinate geometry to identify locations on a plane. The student is expected to graph points in all four quadrants using ordered pairs of rational numbers.
Algebra One- and Two-Step Inequalities: Cornell Notes		
Human Inequalities Graphing	Interactive, physical representation of inequalities	
Coordinate Graphing Review		
Coordinate Graphing SWAT	Graphing review game	
Walking on Sunshine: Coordinate Graphing Picture	Practice on graphing	7.11 A Model and solve one-variable, two-step equations and inequalities
Reflection: Algebraic Equations	Oral explanations of equations	
Unit 10: Algebraic Concepts, Proportionality		
Warm-Up, Unit 10		6.4 A Compare two rules verbally, numerically, graphically, and symbolically in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships
Who Dunit Murder Mystery Game	Solving algebraic equations	6.6 A Identify independent and dependent quantities from tables and graphs
Set the Table, Part 1	Rate of change; proportional relationships	6.6 B Write an equation that represents the relationship between independent and dependent quantities from a table
Brain Break: Crazy Strips	Team builder	6.6 C Represent a given situation using verbal descriptions, tables, graphs, and equations in the form $y = kx$ or $y = x + b$
Set the Table, Part 2	Graphical proportional and non-proportional relationships	6.10 A Model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts
4 Corners	Multiple representations of algebraic equations	7.4 A Represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$
Tribal Challenge: 4 Corners		7.7 A Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations. The student is expected to represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$.
		7.11 A Model and solve one-variable, two-step equations and inequalities
Unit 11: Algebraic Concepts, Measurement		
Warm-up, Unit 11		6.8 B Model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes
From Here to There: Vocabulary Review		6.8 D Determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers
Tribal Battleship™	Coordinate graphing game	6.11 The student applies mathematical process standards to use coordinate geometry to identify locations on a plane. The student is expected to graph points in all four quadrants using ordered pairs of rational numbers.
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 Tribal Challenge)		
Reflection: Measurements		

Unit 12: Algebraic Concepts, Measurement		
Warm-up Unit 12		6.8 C Write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers 6.8 D Determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers
Measurement Stations	Polygons; area, perimeter	
Area and Perimeter Super Shapes	Polygons; area, perimeter	
Tribal 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	
Tribal 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		6.5 C Use equivalent fractions, decimals, and percents to show equal parts of the same whole 6.8 B Model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes 6.8 D Determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers 7.3 A Add, subtract, multiply, and divide rational numbers fluently 7.11 A Model and solve one-variable, two-step equations and inequalities
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)		
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 (optional)	Team builder	
Missing Link Puzzle Page (optional)	Review challenge	
Celebrate Good Times (optional)		