

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

| Activity | Topic(s) | TEKS |
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| 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 | |
| Guild Selection | | |
| Guild Team Banner | | |
| Interactive Notebook | Structure of INB | |
| Program Goals | | |
| Guild Challenge: Calendar Math | Collaborative problem-solving | |
| Costa's Levels of Thinking | | |
| Fraction-Decimal-Percent Models | | |
| Guild 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 | | 6.2 C 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: Focused Notes | | |
| Snowball Fight: Vocabulary Activity | Fun vocab activity | |
| Guild Challenge: Triple Match | Fraction-decimal-percent | |
| Ratio and Proportion Review: Focused Notes | | |
| 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 | | 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: Focused Notes | | |
| 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 | | |
| Brain Break: Charades Vocabulary Activity | | |
| 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 | | 6.3 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 | | |
| Guild 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 | |
| Guild Challenge: Decimals | Solving decimal problems | |
| Snake and Humans Story Time | (+) and (-) integers | |
| Mini Lesson Using 2- Color Counters | Integer problems | |
| Add and Subtract Integers: Focused 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 | |

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| 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 |
| Back Me Up: Vocabulary | Vocabulary game | 6.7 A Generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization |
| Order of Operations Review: Focused Notes | | 7.3 A Add, subtract, multiply, and divide rational numbers fluently |
| Does Your Guild Operate with Order? | Explaining steps in operations | |
| Word Hunt | Interactive solving integer problems | |
| Guild Challenge: Think, Think, Think! | Critical thinking; justifications | |
| SLAP | Integer operations | |
| Brain Break: Human Knot | Team builder | |
| Guild Challenge: Order of Operations Trasketball | Multistep integer problems (game) | |
| Guild Challenge: 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 |
| Warm-up for unit 8 | | 6.7 B Distinguish between expressions and equations verbally, numerically, and algebraically |
| Writing Algebraic Expressions: Focused Notes | | 6.10 A Model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts |
| Lost in Translation | Matching algebra verbal and symbolic and expressions | 7.11 A Model and solve one-variable, two-step equations and inequalities |
| 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: Focused Notes | | 6.9 B Represent solutions for one-variable, one-step equations and inequalities on number lines |
| Guild 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: Focused 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 rates 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 $d = rt$ |
| Guild 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 |
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| 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 |
| Guild 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 | | |
| Reflection: Measurements | | |
| Unit 12: Algebraic Concepts, Measurement | | |

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| 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 | |
| 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 | | 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) | | |
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| 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) | | |
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