## Accelerated $7^{\text {th }}$ Grade Math Curriculum

Mr. Holman
Updated April 2019

| Month | Cluster | Topic | Lessons | Assessments |
| :---: | :---: | :---: | :---: | :---: |
| August/September | Major: <br> 7.NS.A | Topic 1 <br> Integers and Rational Numbers Lessons 1-10 <br> Mathematical Practices 1,2,3,4,5,6,7,8 | - Understand Integers and Absolute Value (7.NS.A.1a) <br> - Understand Rational Numbers (7.NS.A.2d) <br> - Add Integers (7.NS.A.1b, 7.NS.A.1d) <br> - Subtract Integers (7.NS.A.1c, 7.NS.A.1d) <br> - Add and Subtract Rational Numbers (7.NS.A.1b, 7.NS.A.1c, 7.NS.A.1d) <br> - Multiply Integers (7.NS.A.2a, 7.NS.A.2c) <br> - Multiply Rational Numbers (7.NS.A.2a, 7.NS.A.2c) <br> - Divide Integers (7.NS.A.2b, 7.NS.A.2c) <br> - Divide Rational Numbers (7.NS.A.2b, 7.NS.A.2c) <br> - Solve Problems Involving Rational Numbers (7.NS.A.3, 7.EE.B.3) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - Mid-Topic Checkpoint and Performance Task <br> - 3-Act Math Modeling: Win Some, Lose Some <br> - STEM Project - How Cold is Too Cold? <br> - Topic Assessment |

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| October | Major: <br> 8.EE.A <br> 8.NS.A | Topic 2 <br> Real Numbers Lessons 1-10 <br> Mathematical Practices 1,2,3,4,5,6,7,8 | - Rational Numbers as Decimals (8.NS.A.1) <br> - Understand Irrational Numbers (8.NS.A.1) <br> - Compare and Order Real Numbers <br> - Evaluate Square Roots and Cube Roots (8.EE.A.2) <br> - Solve Equations Using Square Roots and Cube Roots (8.EE.A.2) <br> - Use Properties of Integer Exponents (8.EE.A.1) <br> - More Properties of Exponents (8.EE.A.1) <br> - Use Powers of 10 to Estimate Quantities (8.EE.A.3) <br> - Understand Scientific Notation (8.EE.A.4) <br> - Operations with Numbers in Scientific Notation (8.EE.A.4) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - Mid-Topic Checkpoint and Performance Task <br> - 3-Act Math Modeling: Hard-Working Organs <br> - STEM Project - Going Going Gone <br> - Topic Assessment |

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| November | Major: <br> 7.RP.A | Topic 3 <br> Analyze and Use <br> Proportional Relationships Lessons 1-6 <br> Mathematical Practices <br> 1,2,3,4,5,6,7,8 | - Connect Ratios, Rates, and Unit Rates (7.RP.A.1, 7.RP.A.3) <br> - Determine Unit Rates with Ratios of Fractions (7.RP.A.1, 7.RP.A.3) <br> - Understand Proportional Relationships: Equivalent Ratios (7.RP.A.2a) <br> - Describe Proportional Relationships: Constant of Proportionality (7.RP.A.2b, 7.RP.A.2c) <br> - Graph Proportional Relationships (7.RP.A.2a, 7.RP.A.2b, 7.RP.A.2d) <br> - Apply Proportional Reasoning to Solve Problems (7.RP.A.2, 7.RP.A.3) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - Mid-Topic Checkpoint and Performance Task <br> - 3-Act Math Modeling: Mixing It Up <br> - STEM Project - An Essential Resource <br> - Topic Assessment <br> - Cumulative/Benchmark Assessment (Topics 1-2) |

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| November/ December | Major: <br> 7.RP.A | Topic 4 <br> Analyze and Solve Percent Problems Lessons 1-6 <br> Mathematical Practices 1,2,3,4,6,7,8 | - Analyze Percents of Numbers (7.RP.A.3) <br> - Connect Percent and Proportion (7.RP.A.2c, 7.RP.A.3) <br> - Represent and Use the Percent Equation (7.RP.A.2c, 7.RP.A.3) <br> - Solve Percent Change and Percent Error Problems (7.RP.A.3) <br> - Solve MArkup and Markdown Problems (7.RP.A.3) <br> - Solve Simple Interest Problems (7.RP.A.3) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - Mid-Topic Checkpoint and Performance Task <br> - 3-Act Math Modeling: The Smart Shopper <br> - STEM Project - Analyze Activity Tracker Data <br> - Topic Assessment |

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| :---: | :---: | :---: | :---: | :---: |
| January/February | Major: <br> 7.EE.A | Topic 5 <br> Generate Equivalent Expressions Lessons 1-8 <br> Mathematical Practices 1,2,3,4,6,7,8 | - Write and Evaluate Algebraic <br> Expressions (7.EE.B.3, 7.EE.B.4a) <br> - Generate Equivalent <br> Expressions (7.EE.A.1) <br> - Simplify Expressions (7.EE.A.1) <br> - Expand Expressions (7.EE.A.1, 7.EE.A.2) <br> - Factor Expressions (7.EE.A.1, 7.EE.A.2) <br> - Add Expressions (7.EE.A.1, 7.EE.A.2) <br> - Subtract Expressions (7.EE.A.1, 7.EE.A.2) <br> - Analyze Equivalent Expressions (7.EE.A.2) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - Mid-Topic Checkpoint and Performance Task <br> - 3-Act Math Modeling: I've Got You Covered <br> - STEM Project - Analyze Activity Tracker Data (Cont.) <br> - Topic Assessment <br> - Cumulative/Benchmark Assessment (Topics 1-4) |

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| February/March | Major: <br> 7.EE.B | Topic 6 <br> Solve Problems Using Equations and Inequalities <br> Lessons 1-7 <br> Mathematical Practices 1,2,3,4,5,6,7 | - Write Two-Step Equations (7.EE.B.4) <br> - Solve Two-Step Equations (7.EE.B.3, 7.EE.B.4a) <br> - Solve Equations Using the Distributive Property (7.EE.B.3, 7.EE.B.4a) <br> - Solve Inequalities Using Addition or Subtraction (7.EE.B.4b) <br> - Solve Inequalities Using Multiplication or Division (7.EE.B.4b) <br> - Solve Two-Step Inequalities (7.EE.B.4b) <br> - Solve Multi-Step Inequalities (7.EE.B.4b) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - Mid-Topic Checkpoint and Performance Task <br> - 3-Act Math Modeling: Digital Downloads <br> - STEM Project - Water is Life! <br> - Topic Assessment <br> - Cumulative/Benchmark Assessment (Topics 1-5) |

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| :---: | :---: | :---: | :---: | :---: |
| March/April/May | Major: <br> 8.EE.B <br> 8.EE.C | Topic 7 <br> Analyze and Solve Linear Equations Lessons 1-9 <br> Mathematical Practices 1,2,3,4,6,7,8 | - Collect Like Terms to Solve Equations (8.EE.C.7b) <br> - Solve Equations with Variables on Both Sides (8.EE.C.7b) <br> - Solve Multi-Step Equations (8.EE.C.7b) <br> - Equations with No Solutions and Infinitely Many Solutions (8.EE.C.7a) <br> - Compare Proportional Relationships (8.EE.B.5) <br> - Connect Proportional Relationships and Slope (8.EE.B.6) <br> - Analyze Linear Equations: $\mathrm{y}=\mathrm{mx}$ (8.EE.B.6) <br> - Understand the y-intercept of a Line (8.EE.B.6) <br> - Linear Equations: $y=m x+b$ (8.EE.B.6) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - Mid-Topic Checkpoint and Performance Task <br> - 3-Act Math Modeling: Powering Down <br> - STEM Project - Modeling Population Growth <br> - Topic Assessment <br> - Cumulative/Benchmark Assessment (Topics 1-2) <br> - Designing a Paper Airplane with Graphing Equations |

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| May | Supporting: $\begin{aligned} & \text { 7.SP.A } \\ & \text { 7.SP.B } \\ & \text { 7.SP.C } \end{aligned}$ | Topic 8 <br> Use Sampling to Draw Inferences About Populations Lessons 2 \& 3 <br> Topic 9 <br> Probability <br> Lessons 1-7 <br> Mathematical Practices <br> 1,2,3,4,5,6,7,8 | - Draw Inferences from Data (7.SP.A.1, 7.SP.A.2, 7.RP.A.2c) <br> - Make Comparative Inferences About Populations (7.SP.B.3, 7.SP.B.4) <br> - Understand Likelihood and Probability (7.SP.C.5, 7.EE.B.3) <br> - Understand Theoretical Probability (7.SP.C.6, 7.RP.A.2c) <br> - Understand Experimental Probability (7.SP.C.6, 7.SP.C.7) <br> - Use Probability Models (7.SP.C.7a, 7.SP.C.7b, 7.EE.B.3) <br> - Determine Outcomes of Compound Events (7.SP.C.8a, 7.SP.C.8b) <br> - Find Probabilities of Compound Events (7.SP.C.8a, 7.EE.B.3) <br> - Simulate Compound Events (7.SP.C.8c) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - Mid-Topic Checkpoint and Performance Task <br> - 3-Act Math Modeling: Photo Finish <br> - Topic Assessment |

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| May | Major: 8.G.A | Topic 11 <br> Congruence and Similarity <br> Lessons 1-5 <br> Mathematical Practices <br> 1,2,3,4,5,6,7,8 | - Analyze Translations (8.G.A.1a, 8.G.A.1b, 8.G.A.1c, 8.G.A.3) <br> - Analyze Reflections (8.G.A.1a, 8.G.A.1b, 8.G.A.1c, 8.G.A.3) <br> - Analyze Rotations (8.G.A.1a, 8.G.A.1b, 8.G.A.1c, 8.G.A.3) <br> - Compose Transformations (8.G.A.1a, 8.G.A.1b, 8.G.A.1c, 8.G.A.3) <br> - Understand Congruent Figures (8.G.A.2, 8.G.A.3) | - Pre-Topic Assessment <br> - Lesson Quizzes <br> - 3-Act Math Modeling: Tricks of the Trade <br> - Topic Assessment (Lessons 1-5) |

