7th Grade Math Curriculum

Mr. Holman

Updated April 2019

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

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

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

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

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

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Month	Cluster	Topic	Lessons	Assessments
April/May	Supporting: 7.SP.A 7.SP.B 7.SP.C	Topic 6 Use Sampling to Draw Inferences About Populations Lessons 2 & 3 Topic 7 Probability Lessons 1-7 Mathematical Practices 1,2,3,4,5,6,7,8	- Draw Inferences from Data *(7.SP.A.1, 7.SP.A.2, 7.RP.A.2c)* - Make Comparative Inferences About Populations *(7.SP.B.3, 7.SP.B.4)* - Understand Likelihood and Probability *(7.SP.C.5, 7.EE.B.3)* - Understand Theoretical Probability *(7.SP.C.6, 7.RP.A.2c)* - Understand Experimental Probability *(7.SP.C.6, 7.SP.C.7)* - Use Probability Models *(7.SP.C.7a, 7.SP.C.7b, 7.EE.B.3)* - Determine Outcomes of Compound Events *(7.SP.C.8a, 7.SP.C.8b)* - Find Probabilities of Compound Events *(7.SP.C.8a, 7.EE.B.3)* - Simulate Compound Events *(7.SP.C.8c)*	- Pre-Topic Assessment - Lesson Quizzes - Mid-Topic Checkpoint and Performance Task - 3-Act Math Modeling: Photo Finish - Topic Assessment

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May	Additional: 7.G.A 7.G.B	<u>Topic 8</u> Solve Problems Involving Geometry Lessons 4-6, 8-9 <u>Mathematical Practices</u> 1,2,3,4,6,7,8	- Solve Problems Using Angle Relationships *(7.G.B.5)* - Solve Problems Involving Circumference of a Circle *(7.G.A.2, 7.EE.B.4a)* - Solve Problems Involving Area of a Circle *(7.G.B.4, 7.EE.B.3, 7.EE.B.4a)* - Solve Problems Involving Surface Area *(7.G.B.6, 7.NS.A.3, 7.EE.B.3, 7.EE.B.4a)* - Solve Problems Involving Volume *(7.G.B.6, 7.NS.A.3, 7.EE.B.3, 7.EE.B.4a)*	- Pre-Topic Assessment - Lesson Quizzes - 3-Act Math Modeling: Whole Lotta Dough - Assessment over Topics 4-6, 8-9