



Pearson

Course Name

Semester A Summary:

In this course, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Mathematical instruction is presented in close alignment with the Common Core State Standards (CCSS), including the Standards for Mathematical Practices. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding adding, subtracting, multiplying and dividing rational numbers; unit rates and proportions; proportional relationships; algebraic expressions, and solving one-, two-, and multi-step equations. Students are encouraged to use visual representation of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in work and life. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The course is designed to support a growth mindset regarding math and encourages students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in work and life.

Semester A Outline

1. Gifted and Talented Math 7 A Course Overview

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2. Add & Subtract Rational Numbers

1. Introduction to Rational Numbers
2. Add Rational Numbers
3. Add Fractions & Decimals
4. Applications of Adding Rational Numbers
5. Subtract Rational Numbers
6. Subtract Fractions & Decimals
7. Applications of Subtracting Rational Numbers
8. Opposites Make Zero
9. Add & Subtract Rational Numbers Apply
10. Add & Subtract Rational Numbers Review
11. Add & Subtract Rational Numbers Unit Test

3. Multiply & Divide Rational Numbers

1. Multiply Rational Numbers
 - There are no objectives for this lesson.
2. Multiply Fractions & Decimals
 - There are no objectives for this lesson.
3. Multiply Fractions & Decimals Discussion
 - There are no objectives for this lesson.
4. Applications of Multiplying Rational Numbers
 - There are no objectives for this lesson.
5. Divide Rational Numbers
 - There are no objectives for this lesson.
6. Divide Decimals & Fractions
 - There are no objectives for this lesson.
7. Decimals as Rational Numbers
 - There are no objectives for this lesson.
8. Write Fractions as Decimals
 - There are no objectives for this lesson.
9. Applications of Dividing Rational Numbers
 - There are no objectives for this lesson.
10. Multiply & Divide Rational Numbers
 - There are no objectives for this lesson.
11. Multiply & Divide Rational Numbers Apply
 - There are no objectives for this lesson.
12. Multiply & Divide Rational Numbers Review
 - There are no objectives for this lesson.
13. Multiply & Divide Rational Numbers Unit Test
 - There are no objectives for this lesson.

4. Unit Rates & Proportions

1. Unit Rates & Proportions Introduction
 - There are no objectives for this lesson.
2. Ratios
 - There are no objectives for this lesson.
3. Unit Rates
 - There are no objectives for this lesson.
4. Unit Rates with Ratios of Fractions
 - There are no objectives for this lesson.
5. Proportional Relationships in Tables
 - There are no objectives for this lesson.
6. Review of the Coordinate Plane & Slope
 - There are no objectives for this lesson.
7. Graphs of Proportional Relationships
 - There are no objectives for this lesson.
8. Graph Proportional Relationships
 - There are no objectives for this lesson.
9. Graph Proportional Relationships Discussion
 - There are no objectives for this lesson.
10. Equations of Proportional Relationships
 - There are no objectives for this lesson.
11. Compare Proportions from Descriptions & Tables
 - There are no objectives for this lesson.
12. Compare Proportions from Graphs & Equations

- There are no objectives for this lesson.
- 13. Unit Rates & Proportions Apply
 - There are no objectives for this lesson.
- 14. Unit Rates & Proportions Review
 - There are no objectives for this lesson.
- 15. Unit Rates & Proportions Unit Test
 - There are no objectives for this lesson.

5. Use Proportional Relationships

1. Use Proportional Relationships Introduction
 - There are no objectives for this lesson.
2. Solve Ratio Problems with Proportions
 - There are no objectives for this lesson.
3. Solve Mixture Problems with Proportions
 - There are no objectives for this lesson.
4. Solve Percent Problems with Proportions
 - There are no objectives for this lesson.
5. Convert Measurements with Proportions
 - There are no objectives for this lesson.
6. Using Proportional Relationships Portfolio
 - There are no objectives for this lesson.
7. Proportions & Scale Factors
 - There are no objectives for this lesson.
8. Use Proportional Relationships Apply
 - There are no objectives for this lesson.
9. Use Proportional Relationships Review
 - There are no objectives for this lesson.
10. Use Proportional Relationships Unit Test
 - There are no objectives for this lesson.

6. Algebraic Expressions

1. Algebraic Expressions Introduction
 - There are no objectives for this lesson.
2. Evaluate Algebraic Expressions
 - There are no objectives for this lesson.
3. Simplify Algebraic Expressions
 - There are no objectives for this lesson.
4. The Distributive Property & Algebraic Expressions
 - There are no objectives for this lesson.
5. Factor Algebraic Expressions
 - There are no objectives for this lesson.
6. Add and Subtract Algebraic Expressions
 - There are no objectives for this lesson.
7. Add, Subtract, Factor, & Expand Expressions
 - There are no objectives for this lesson.
8. Algebraic Expressions Portfolio
 - There are no objectives for this lesson.
9. Algebraic Expressions Apply
 - There are no objectives for this lesson.
10. Algebraic Expressions Review
 - There are no objectives for this lesson.
11. Algebraic Expressions Unit Test

- There are no objectives for this lesson.

7. One- & Two-Step Equations

1. One- & Two-Step Equations Introduction
 - There are no objectives for this lesson.
2. Solve Equations with Addition and Subtraction
 - There are no objectives for this lesson.
3. Problem Solving with Addition and Subtraction
 - There are no objectives for this lesson.
4. Solve Equations with Multiplication and Division
 - There are no objectives for this lesson.
5. Problem Solving with Multiplication and Division
 - There are no objectives for this lesson.
6. Solve Two-Step Equations
 - There are no objectives for this lesson.
7. Problem Solving with Two-Step Equations
 - There are no objectives for this lesson.
8. Compare Solution Methods for Two-Step Equations
 - There are no objectives for this lesson.
9. One- & Two-Step Equations Apply
 - There are no objectives for this lesson.
10. One- & Two-Step Equations Review
 - There are no objectives for this lesson.
11. One- & Two-Step Equations Unit Test
 - There are no objectives for this lesson.

8. Multi-Step Equations

1. Multi-Step Equations Introduction
 - There are no objectives for this lesson.
2. Steps to Solve a Multi-Step Equation
 - There are no objectives for this lesson.
3. Equations with Parentheses
 - There are no objectives for this lesson.
4. Equations with Parentheses, Decimals, & Fractions
 - There are no objectives for this lesson.
5. Problem Solving with Multi-Step Equations
 - There are no objectives for this lesson.
6. Compare Solution Methods for Multi-Step Equations
 - There are no objectives for this lesson.
7. Determine Reasonableness of Solutions
 - There are no objectives for this lesson.
8. Multi-Step Equations Apply
 - There are no objectives for this lesson.
9. Multi-Step Equations Review
 - There are no objectives for this lesson.
10. Multi-Step Equations Unit Test
 - There are no objectives for this lesson.

Semester B Summary:

Semester B Outline

Formatting

- *Single Spaced*
- *Verdana*
- *11 Pt*