

# TABR Grade 6 Overarching Mathematics Objectives for 2013-2014

## Students will:

- compare, order, add, subtract, multiply, and divide whole numbers, fractions and decimals.
- identify, compare, manipulate, and measure two-dimensional and three-dimensional figures.
- measure, compare, and use customary and metric units of measurement, and explore ratio, proportion, and percent.
- use algebraic strategies to determine patterns, determine value of expressions, solve equations, and investigate integers.
- organize and interpret data in graphs, plots, and other forms of data representation and determine probability of occurrences.

TRIMESTER	STRANDS/TOPICS	TEXTS AND MATERIALS
1	Number and Operations ↻ Algebra ↻ Measurement	1. Glencoe Mathematics <i>Mathematics Applications and Concepts Course 1</i> <ul style="list-style-type: none"> <li>• <u>Chapter 1: Place Value and Number Operations</u></li> <li>• <u>Chapter 2: Multiplication of Decimals and Whole Numbers</u></li> <li>• <u>Chapter 3: Division with Decimals and Whole Numbers</u></li> <li>• <u>Chapter 4: Expressions and Equations</u></li> <li>• <u>Chapter 5: Integers</u></li> </ul>
2	Number and Operations ↻ Algebra	1. Glencoe Mathematics <i>Mathematics Applications and Concepts Course 1</i> <ul style="list-style-type: none"> <li>• <u>Chapter 5: Integers</u></li> <li>• <u>Chapter 6: Number Theory</u></li> <li>• <u>Chapter 7: Fraction Concepts</u></li> <li>• <u>Chapter 8: Operations with Fractions</u></li> </ul>
3	Number and Operations ↻ Measurement ↻ Geometry	1. Glencoe Mathematics <i>Mathematics Applications and Concepts Course 1</i> <ul style="list-style-type: none"> <li>• <u>Chapter 10: Geometry</u></li> <li>• <u>Chapter 11: Ratio and Proportion and Percent</u></li> <li>• <u>Chapter 12: Percent Applications</u></li> <li>• <u>Chapter 13: Measurement</u></li> </ul>

# TABR Grade 7 Overarching Mathematics Objectives for 2013-2014

## Students will:







- add, subtract, multiply and divide integers and fractions.
- identify, compare, and measure simple and complex figures.
- measure, compare and use angles, lines and two-and-three dimensional figures.
- use algebraic strategies to determine patterns, determine value of expressions, solve equations and investigate integers.
- organize and interpret data in graphs, plots and other forms of data representation.

TRIMESTER	STRANDS/TOPICS	TEXTS AND MATERIALS
1	Numbers and Operations ∞ Algebra	1. Glencoe Mathematics <i>Applications and Concepts Course 2</i> <ul style="list-style-type: none"> <li>• <u>Chapter 1: Operations of Integers</u></li> <li>• <u>Chapter 2: Expressions</u></li> <li>• <u>Chapter 3: Equations</u></li> </ul>
2	Numbers and Operations ∞ Geometry ∞ Measurement ∞ Algebra ∞ Data Analysis and Probability	1. Glencoe Mathematics <i>Applications and Concepts Course 2</i> <ul style="list-style-type: none"> <li>• <u>Chapter 4: Decimal Concepts and Operations</u></li> <li>• <u>Chapter 5: Fraction Concepts and Operations</u></li> <li>• <u>Chapter 6: Ratio and Proportions</u></li> <li>• <u>Chapter 7: Percent Applications</u></li> <li>• <u>Chapter 9: 2-Dimensional Geometry</u></li> </ul>
3	Geometry ∞ Measurement ∞ Algebra ∞ Data Analysis and Probability	1. Glencoe Mathematics <i>Applications and Concepts Course 2</i> <ul style="list-style-type: none"> <li>• <u>Chapter 10: Geometry Applications</u></li> <li>• <u>Chapter 11: 3-Dimensional Geometry</u></li> <li>• <u>Chapter 8: Data Analysis and Statistics</u></li> <li>• <u>Chapter 12: Probability</u></li> </ul>

# TABR Grade 8 Mathematics Overarching Objectives for 2013-2014

## Students will:

- be introduced to the language of algebra, its properties, and methods of solving equations.
- understand the role rational numbers (i.e., fractions, decimals, and percents) play in the study of Algebra.
- learn how linear functions and graphs can be used to solve equations.
- use Algebra to solve geometry problems.
- display and analyze data using linear functions.
- Find area and surface area of two and three dimensional shapes.

TRIMESTER	STRANDS/TOPICS	TEXTS AND MATERIALS
1	Numbers and Operations  Algebra  Geometry	1. Glencoe Mathematics <i>Applications and Concepts Course 3</i>  Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Unit 1: Algebra: Rational Numbers and Percents</u></li> <li>• <u>Unit 2: Expressions and Functions</u></li> <li>• <u>Unit 3: Linear Functions and Systems of Equations</u></li> <li>• <u>Unit 4: Equations and Inequalities</u></li> </ul>
2	Numbers and Operations  Algebra  Geometry	1. Glencoe Mathematics <i>Applications and Concepts Course 3</i>  Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Unit 5: Operations on Real Numbers</u></li> <li>• <u>Unit 6: Angles and Lines</u></li> <li>• <u>Unit 7: Similar Triangles and The Pythagorean Theorem</u></li> </ul>
3	Algebra  Geometry  Data Analysis and Probability	1. Glencoe Mathematics <i>Applications and Concepts Course 3</i>  Selected Lessons From: <ul style="list-style-type: none"> <li>• <u>Unit 8: Data Analysis</u></li> <li>• <u>Unit 9: Units of Measure</u></li> </ul>