

## A YEAR AT A GLANCE -- GRADE 7 *(Revised December 2013)*

*Note: (number inside parenthesis represents approximate number of days to cover content.)*

Benchmark 1	Benchmark 2	Benchmark 3	Benchmark 4
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; text-align: center;"><b>Pretest</b></div> <p><b>Basic Skills Review (3 days)</b>                      Problem Solving                      Adding and Subtracting                      Multiplication and Division                      Fractions: Simplifying, Converting from Mixed to Improper</p> <p><b><u>7.1a, 7.13b, 7.16a-e, 7.2, 7.1d*</u> (20 days)</b>                      Powers and Exponents                      Numerical Expressions/Order of Operations                      Algebraic Expressions                      Expressions vs. Equations                      Properties                      Arithmetic and Geometric Sequences                      Squares and Square Root</p> <p><b><u>7.1e, 7.8, 7.3*</u> (10 days)</b>                      Integers and Absolute Value/Number Line                      Coordinate Plane                      Adding Integers (model)                      Subtracting Integers (model)                      Multiplying/Dividing Integers</p> <p><b><u>SOL 7.1a, b*</u> (3 days)</b>                      Positive and Negative Exponents for powers of 10                      Scientific Notation with Pos. and Neg. Exponents</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"><b>Benchmark Test 1</b></div>	<p><b><u>7.1C, 7.4</u> (14 days)</b>                      The Number Line                      Comparing Fractions                      Comparing Decimals                      Percent                      Fractions/Decimals/Percent                      Ordering Fractions/ Decimals/Percent                      Ordering Scientific Notation including pos. and neg. exponents</p> <p><b><u>7.14 a, b; 7.15 a, b</u> (14 days)</b>                      Addition/Subtraction Equations                      Multiplication/Division Equations                      Solving Two Step Equations                      Inequalities (graphing)                      Solving +/- Inequalities                      Solving multiplication/division Inequalities</p> <p><b><u>7.12, 7.13a</u> (14 days)</b>                      Relations and Functions                      Equations, Functions, and Tables                      Functions, Tables and Graphs</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"> <p><b>Once content has been introduced, it should be reviewed often and connected to future content.</b></p> <p><i>*Items measuring these SOL will be completed without the use of a calculator.</i></p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"><b>Benchmark Test 2</b></div>	<p><b><u>7.4</u> (13 days)</b>                      Ratio                      Rates/Unit Rates                      Proportions                      Solve Proportions                      Converting Between Systems                      Apply Proportions                      Scale Drawing</p> <p><b><u>7.4</u> (5 days)</b>                      Mental Percent (5, 10, 15, and 20%)                      Taxes and Tips                      Discounts                      Total Cost and Sale Price</p> <p><b><u>7.9 and 7.10</u> (10 days)</b>                      Probability of Simple Events                      Tree Diagrams                      Fundamental Counting Principle                      Probability of Compound Events                      Theoretical and Experimental Probability</p> <p><b><u>SOL 7.11 a, b</u> (12 days)</b>                      Frequency Tables                      Stem and Leaf Plots                      Histograms                      Making Predictions (based on data sets)                      Collect, analyze and display data in a histogram                      Compare and contrast histograms with other data displays (tables, circle graphs, line plots, stem and leaf plots including the same data)</p>	<p><b><u>7.6, 7.7, 7.8</u> (10 days)</b>                      Vocabulary /Symbols                      Triangles                      Quadrilaterals                      Similar Figures                      Transformations of right triangles or rectangles                      Translations                      Rotations                      Reflections                      Dilations</p> <p><b><u>7.5 a, b, c</u> (5 DAYS)</b>                      Area                      Volume of Prisms                      Volume of Cylinders                      Nets of 2D Figures                      Surface Area of Prisms                      Surface Area of Cylinders                      Effects of Changing a dimension</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"><b>SOL Test</b></div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"><b>Post Test</b></div>