**3rd Grade Mathematics – Benchmark #2**

**Curriculum Map – Expressions to Utah State Math Core**

**State Core Mathematical Language and Symbols for Third Grade:**

**Standard 1:** sum, difference, expanded form, factor, product, array, multiple, numerator, denominator, **halves,** **thirds, fourths, sixths, eighths**, divisor, dividend, quotient, greater than, less than, equal to, <, >, =

**Standard 2:** growing patterns, **expressions\*, equations\***, <, >, =

**Standard 3: polygon, attribute**, quadrilateral, equilateral triangle, isosceles triangle, right triangle, **pentagon\*, hexagon\*, octagon\***, parallel, right angle, **reflect\*, translate\*, rotate\***, slide, flip, turn, **congruent**

**Standard 4: measure\*, unit\*, metric system\*, customary system\***, length, pound, ounce, centimeter, meter, inch, foot, **yard**, capacity, **weight\***, perimeter.

**Standard 5:** data, table, **chart\***, **graph\*, frequency table\***, **line plot\***, **pictograph\***, **bar graph\***, likely, certain, outcome, **impossible outcomes\***

**\*Bold words are not emphasized in the Expressions Vocabulary and should be used regularly throughout the year.**

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| **State Core Code** | **Text Book: Expressions**  ***Unit 4***  *4 Lessons in approx. 5 Days* | **Vocabulary**  **Core/***Text* | **Assessment** | **Activities, Strategies, Ideas, Investigations, etc.** |
| **See Utah Core:**  **3.2.a, b**  **Exploratory concept and skill** | Lesson 4.1   * Draw lines of symmetry. * Identify congruent halves of figures and congruent figures. | ***parallel***  *perpendicular*  *line of symmetry*  ***congruent*** |  |  |
| **See Utah Core:**  **3.1.b**  **3.1.d** | Lesson 4.2   * Label and name figures using letters. * Understand the relationship between the diagonals of quadrilaterals and the triangles they form. | *diagonal*  ***right angle***  ***right triangle***  *vertex*  *vertices* |  |  |
| **See Utah Core:**  **3.1.c** | Lesson 4.3   * Understand what an angle is and name angles by size. * Describe and name polygons. * Understand the relationship between quadrilaterals and triangles. | ***angle*** *right angle*  *acute angle obtuse angle*  ***right triangle***  *acute triangle*  *obtuse triangle*  ***equilateral triangle***  ***isosceles triangle***  *scalene triangle* |  |  |
| **See Utah Core:**  **3.1.b**  **3.1.d** | Lesson 4.4   * Estimate angle measures by comparing them to angles with known measures. | *degree*  *straight angle*  *ray* |  |  |
| **Exploratory – Not Core** | * Discover that the sum of the measures of the angles in any triangle is 180 degrees. * Given the measures of two angles in a triangle, find the measure of the third angle. |
|  |  |  | Quick Quiz 1 |  |
|  | Unit 4 Review |  | Unit 4 Test |  |

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| **State Core Code** | **Text Book: Expressions**  ***Unit 5*** *18 Lessons in approx. 22 Days* | **Vocabulary**  **Core/***Text* | **Assessment** | **Activities, Strategies, Ideas, Investigations, etc.** |
| **See Utah Core:**  **1.4.b**  **1.1.c** | Lesson 5.1   * Round numbers to the nearest hundred. * Round to estimate sums and differences and check calculations. | ***estimate***  *round* |  |  |
| **See Utah Core:**  **1.4.b**  **1.1.c** | Lesson 5.2   * Round numbers to the nearest ten. * Use rounding to estimate sums and differences. * Estimate quantities. | *round* |  |  |
| **See Utah Core:**  **1.1.d** | Lesson 5.3   * Compare and order whole numbers. * Compare the values of expressions. | *compare*  ***equal to (=)***  ***greater than (>)***  ***less than (<)*** |  |  |
|  |  |  | Quick Quiz 1 |  |
| **See Utah Core:**  **1.1.b**  **1.1.d** | Lesson 5.4   * Review the values of a penny, nickel, dime, and quarter. * Determine and compare the values of collections of coins and bills. | *penny*  *nickel*  *dime quarter*  *coin equivalents* |  |  |
| **See Utah Core:**  **1.1.b**  **1.1.d** | Lesson 5.5   * Represent amounts of money in various ways. * Practice counting out the exact amount of money to make a purchase. | *dollar*  *exact* |  |  |
| **See Utah Core:**  **1.1.b**  **1.1.d**  **1.1.c** | Lesson 5.6   * Use the Counting On strategy to make change from purchases. | *change* |  |  |
| **See Utah Core:**  **1.1.c** | Lesson 5.7   * Round money amounts to the nearest dime or dollar. * Make estimates in real-world situations involving money. | *round*  ***estimate***  *rounding rules* |  |  |
|  |  |  | Quick Quiz 2 |  |
| **See Utah Core:**  **5.1.a** | Lesson 5.8   * Interpret information in tables. * Write and solve problems based on tables with data. | ***table***  *row*  *column*  *cell* |  |  |
| **See Utah Core:**  **5.1.a** | Lesson 5.9   * Use information in tables to create and solve word problems. * Complete tables. | ***table***  *row*  *column*  *cell* |  |  |
| **See Utah Core:**  **5.1.a** | Lesson 5.10   * Create a simple table. * Practice completing tables in which there is a mathematical relationship between the columns. | *column*  *row*  *cell*  ***table***  *survey*  *tally*  ***data*** |  |  |
|  |  |  | Quick Quiz 3 |  |
| **See Utah Core:**  **1.4.a**  **1.4.b** | Lesson 5.11   * Represent and solve word problems with extra or hidden information. |  |  |  |
| **See Utah Core:**  **1.4.a**  **1.4.b** | Lesson 5.12   * Identify word problems with not enough information to solve and identify the information needed. * Rewrite word problems with not enough information. |  |  |  |
| **See Utah Core:**  **1.4.a,b** | Lesson 5.13   * Solve word problems requiring two steps. | *net gain* |  |  |
| **See Utah Core:**  **1.4.a**  **1.4.b** | Lesson 5.14   * Solve multi-step word problems requiring two or more steps. |  |  |  |
|  |  |  | Quick Quiz 4 |  |
| **See Utah Core:**  **5.1.a**  **5.1.b** | Lesson 5.15   * Write and answer questions using horizontal and vertical bar graphs. * Create bar graphs to represent data from tables. * Find mode and range of data. | **chart graph**  *axes scale*  *vertical axis*  *horizontal axis*  *vertical bar graph*  *horizontal bar graph* |  |  |
| **See Utah Core:**  **5.1.a**  **5.1.b** | Lesson 5.16   * Analyze data in horizontal and vertical bar graphs. * Use information in a table to create horizontal and vertical bar graphs. | **graph *bar graph***  *axes*  *horizontal axis*  *vertical axis*  *scale* |  |  |
| **See Utah Core:**  **5.1.a**  **5.1.b** | Lesson 5.17   * Construct and analyze frequency tables and line plots * Match a set of data with a graph of the data and describe the important features. | ***frequency table***  ***line plot*** |  |  |
|  |  |  | Quick Quiz 5 |  |
| **See Utah Core:**  **ILO’s** | Lesson 5.18   * Solve a variety of problems using mathematical concepts and skills. * Use the mathematical processes of problem solving, connections, reasoning and proof, communication, and representation. |  |  |  |
|  | Unit 5 Review |  | Unit 5 Test | |
| Benchmark Test #2 (approximately 12/10) | |