**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.
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|  |  |  | 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.
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|  | Unit 5 Review |  | Unit 5 Test |
| Benchmark Test #2 (approximately 12/10) |