**Math 1 Semester**

**Unit 2: Linear Equations**

# Unit Objectives: Students will be able to:

Essential Question:

* The structure of an expression is made up of terms, factors, and coefficients that have meaning within a context.
* Explain the difference between solving an equation and simplifying an expression.
* Rewrite expressions with rational exponents.

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| Day | Date | Topic | Classwork |
| 1 | Mon.  2/8 | Solving equations (all types) | Solving one-step, two-step, multistep equations  notes and practice |
| 2 | Tues.  2/9 | Solving Literal Equations | Solving equations with more than one variable notes and practice |
| 3 | Weds.  2/10 | Slope and Rate of Change | Solve for slope by using two points, a graph, an equation, tables, and finding rate of change |
| 4 | Thurs.  2/11 | Now-Next Rule |  |
| 5 | Fri.  2/12 | Arithmetic Sequence | Writing Now-Next Rules from arithmetic sequences, creating arithmetic sequences from linear equations, finding terms in arithmetic sequences |
| 6 | Mon.  2/15 | Linear Regression | Using technology to find the linear regression equations (line of best fit)  Analyzing and making predictions from the linear regression equations |
| 7 | Tues.  2/16 | Meaning of Slope/Meaning of Y-Intercept | Using real world linear equation problems to find the slope and y-intercept, and interpret their meaning |
| 8 | Wed. 2/17 | **Quiz** | Quiz |
| 9 | Thurs.  2/18 | Midpoint | Use the midpoint formula to find the center of a circle |
| 10 | Fri.  2/19 | Pythagorean Theroem/Distance | Use the Pythagorean theorem and distance formula to find distance between two points  Find perimeter by using the distance formula |
| 11 | Mon.  2/22 | Benchmark #1 Review | Review for benchmark |
| 12 | Tues.  2/23 | **Benchmark #1/Unit 2 Test** | Benchmark #1/Unit 2 test |

TUTORIALS: Tuesday – Lunch B

Thursday – Lunch A