**Unit 1: Factoring and Graphing Quadratics**

**By the end of the unit students will be able to:**

1) Factor quadratic binomial, trinomial, and polynomials of 4 terms.

2) Solve quadratic equations by factoring.

3) Solve quadratic equations by graphing.

4) Graph quadratic functions using vertex, axis of symmetry, y-intercept, and zeros.

5) Use technology to solve quadratic equations and identify vertices.

6) Use properties of quadratics to answer application problems.

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| **Day** | **Date** |  **Lesson** | **Assignment** | **Checked** |
| 1 | Wed. Jan. 20 | Introductions and ExpectationsReview Factoring: GCF, Grouping, Difference of 2 Squares | Homework 1-1 |  |
| 2 | Thurs.Jan. 21 | Finish Review of Factoring: Trinomials | Homework 1-2 |  |
| 3 | Fri. Jan. 22 | **Quiz 1 on Days 1 and 2**Solve by Factoring | Homework 1-3 |  |
| 4 | Mon. Jan 25 | Graphing: AoS, Vertex, Zeros, Y-InterceptGraphing using Technology | Homework 1-4 |  |
| 5 | TuesJan. 26 | Applications | Homework 1-5 |  |
| 6 | Wed.Jan. 27 | **Quiz 2 on Days 3 and 4**Applications | Homework 1-6 |  |
| 7 | Thurs.Jan. 28 | Review for Unit 1 Test | Homework 1-7 and Complete Review WS |  |
| 8 | Fri.Jan. 29 | Test |  |  |
| 9 |  | Unit 1 Test |  |  |