**Chapter 1: Quadratic Relations 1 Name**

**Unit Goal:**

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| **Lesson** | **Date** | **Learning Goal** | **Must complete** |
| 4.1 |  | Modeling with Quadratic Relations   * Quadratic relations are parabolas, and second differences are constant * Quadratic relations have x2 term, the degree of the polynomial is 2 | Workbook Pg 59   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | |  |  |  |  |  | |
| 4.2 |  | Quadratic Relation *y=ax2+k*   * The value of *“a”* determines the orientation and shape of the parabola * The value of *“k”* determines the vertical position of the parabola | Workbook Pg 62   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | |  |  |  |  |  | |
| 4.3 |  | Quadratic Relation *y=a(x – h)2*   * The value of *“h”* determines the horizontal position of the parabola | Workbook Pg 65   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | |  |  |  |  |  | |
| 4.4 |  | The Quadratic Relation *y=a(x – h)2 + k*   * The coordinates of the vertex of the parabola are *(h,k)* | Workbook Pg 68   |  |  |  |  | | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | |  |  |  |  | |
| 4.5 |  | Interpret Graphs of Quadratic Relations   * A quadratic relation can be represented by a table, a graph or an equation * Use given information to generate equation | Workbook Pg 71   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | |  |  |  |  |  | |
| Review |  | **Expected Grade:**  **Quadratics review** | Workbook Pg 73   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | |  |  |  |  |  |  |   Textbook p226   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | | 12 | |  | |
| **Test** |  | **Grade:** |  |

**Reflection: How did this unit go?**

If you achieved your goals, what learning strategies and work habits did you use that worked well? What might help you do even better next time?

If you failed to achieve you goals, what changes will you make during the next unit?