**Math 2**

**Units 4/5 – Quadratic Functions**

|  |  |  |  |
| --- | --- | --- | --- |
| Day | Date | Topic | Classwork |
| 1 | Weds.  2/27 | An introduction to quadratic functions, designed to elicit representations and surface a new type of pattern and change  Solidification of quadratic functions begins as quadratic patterns are examined in multiple representations and contrasted with  linear relationships. | 1.1 Something to Talk About  Pages 1-4  1.2 I Rule  Pages 5-9 |
| 2 | Thurs.  2/28 | Focus specifically on the nature of change between values in a quadratic being linear. | 1.3 Scott’s Macho March  Pages 11-15 |
| 3 | Fri.  3/1 | Focus on maximum/minimum point as well as domain and range for quadratics.  Comparing quadratic and exponential functions to clarify and distinguish between each type of growth as well as how that growth appears in each of their representations. | 1.4 Rabbit Run  Pages 17-21  1.5 The Tortoise and The Hare  Pages 23-26 |
| 4 | Mon.  3/4 | Incorporating quadratics with the understandings of linear and exponential functions. | 1.6 How Does it Grow  Pages 27-34 |
| 5 | Tues.  3/5 | **UNIT 4 QUIZ** | **UNIT 4 QUIZ** |
| 6 | Weds.  3/6 | Connecting transformations to quadratic functions and parabolas | 2.1 Transformers: Shifty y’s  Pages 1-6 |
| 7 | Thurs.  3/7 | Working with vertex form of a quadratic, connecting the components to transformations | 2.2 Transformers: More Than Meets the y’s  Pages 7-12 |
| 8 | Fri.  3/8 | Visual and algebraic approaches to completing the square | 2.3 Building the Perfect Square  Pages 13-18 |
| 9 | Mon.  3/11 | Visual and algebraic approaches to completing the square | 2.4 A Square Deal  Pages 19-24 |
| 10 | Tues.  3/12 | Visual and algebraic approaches to completing the square | 2.5 Be There or Be Square  Pages 25-32 |
| 11 | Weds.  3/13 | Connecting the factored and expanded forms of a quadratic | 2.6 Factor Fixin’  Pages 33-38 |
| 12 | Thurs.  3/14 | Connecting the factored and expanded or standard forms of a quadratic | 2.7 The x Factor  Pages 39-44 |
| 13 | Fri.  3/15 | Connecting the factored and expanded forms of a quadratic when a-value is not equal to one | 2.8 The Wow Factor  Pages 45-52 |
| 14 | Mon.  3/18 | **MIDTERM (UNITS 1-5) REVIEW** | **MIDTERM (UNITS 1-5) REVIEW** |
| 15 | Tues.  3/19 | **MIDTERM (UNITS 1-5)** | **MIDTERM (UNITS 1-5)** |
| 16 | Weds.  3/20 | Building fluency in adding and subtracting polynomials | 3.3 It All Adds Up  Pages 53-58 |
| 17 | Thurs.  3/21 | Building fluency in multiplying polynomials | 3.4 Pascal’s Pride  Pages 59-66 |
| 18 | Fri.  3/22 | Focus on the vertex and intercepts for quadratics | 2.9 Lining Up Quadratics  Pages 67-74 |
| 19 | Mon.  3/25 | Building fluency in rewriting and connecting different forms of a quadratic | 2.10 I’ve Got a Fill-in  Pages 75-81 |
| 20 | Tues.  3/26 | **UNIT 5 QUIZ**  **End of Quarter 3** | **UNIT 5 QUIZ**  **End of Quarter 3** |

# 

Hot Lunch Tutorials: Tues (B) and Thurs (A)