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Honors Math 2 Unit 2: Geometric Transformations

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| **Date** | **Day of Unit** | **Standard** | **Lesson** | **Students will be able to…** | **Assignments and Homework** |
| Fri 2/17 | 1 | NC.M2.F-IF.9  NC.M2.F-BF.1  NC.M2.F-BF- 3 | FRED FUNCTIONS | Write a function that describes a relationship between two quantities by building quadratic functions with real solution(s) and inverse variation functions given a graph, a description of a relationship, or ordered pairs (include reading these from a table).  Understand the effects of the graphical and tabular representations of a linear and quadratic function f with for specific values of k (both positive and negative). | Fred Function HW  Packet pages 1 - 3 |
| Mon  2/20 | 2 | **NC.M2.F-IF.1**  **NC.M2.F-IF.2** | Functions: Domain and Range  Finish Fred functions | Write the domain and range of graphs in interval notation. | Packet Page 4 |
| Tues  2/21 | 3 |  | Quiz on day 1 and 2 |  |  |
| Wed  2/22 | 4 | **NC.M2.G-CO.2** | Geometric Transformations  (Pre-Req. and Review)  \*Geometry Chapter 12\* | Recall Math 1 knowledge of segments, lines, transversals and angles to solve algebraic problems. | Packet Page 5 |
| Thurs  2/23 | 5 | **NC.M2.G-CO.4**  **NC.M2.G-CO.5** | Reflections  (Found in Geometry Chapter 12.1) | Graph, label, and describe a reflections of images and pre- images as well as state the algebraic rule. Students will also learn to identify isometries. | Packet Pages 6-7 |
| Fri  2/24 | 6 | **NC.M2.G-CO.3**  **NC.M2.G-CO.4**  **NC.M2.G-CO.5** | Translations  (Found in Geometry Chapter 12.2) | Graph, label, and describe a translations of images and pre-images as well as state the algebraic rule. Students will learn to describe and find translations using vectors and vector sums. | Packet Pages 8-9 |
| Mon 2/27 | 7 | **NC.M2.G-CO.3**  **NC.M2.G-CO.4**  **NC.M2.G-CO.5** | Rotations  (Found in Geometry Chapter 12.3)  Enrichment: Pg. 688 | Graph, label, and describe a rotations of images and pre-images as well as state the algebraic rule. | Packet Pages 10-11 |
| Tues  2/28 | 8 |  | **Quiz #2** | \*\*\*ACT DAY\*\*\* |  |
| Wed  3/1 | 9 | **NC.M2.G-SRT.1a**  **NC.M2.G-SRT.1b**  **NC.M2.G-SRT.1c**  **NC.M2.G-SRT.1d** | Compositions of Reflections  (Found in Geometry Chapter 12.4) | Use a composition of a reflection.  Identify glide reflections. | Packet pages 12-14 |
| Thurs  3/2 | 10 | **NC.M2.G-SRT.1a**  **NC.M2.G-SRT.1b**  **NC.M2.G-SRT.1c**  **NC.M2.G-SRT.1d** | Dilations  (Found in Geometry Chapter 12.7) | Graph, label, describe, and locate a dilation of images and pre-images as well as state the algebraic rule. | Packet pages 15-17 |
| Fri  3/3 | 11 | All Standards | Review |  |  |
| Mon  3/5 | 12 | All Standards | **Test** |  |  |

**Homework Grade:**