| Math 3 Unit 4 Calendar - Reasoning with Geometry |  |  |  |  |  |
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| Essential Questions: <br> 1. What are the special relationships with lines and angles in circles $\&$ triangles? <br> 2. How can I prove \& use these speical relationships? |  |  |  |  |  |
| NAME |  |  |  |  |  |
| Day | Date | Topic | State Standards | I Can... | HW |
| W | 17-Oct | Parallelogram Properties (MVP Math 25.8 Lesson) | NC.M3.G-CO. 11 | -solve for missing angle measurements and segment lengths using geometric relationships | Day 1 HW Pre-Requisite Quiz Due WEDNESDAY |
| TH | 18-Oct | Two-Column Proofs | NC.M3.G-CO. 14 | -write formal proofs about triangles and parallelograms <br> - write two-column proofs | Day 2 HW |
| F | 19-Oct | Properties of Centers of Triangles Lab (MVP Math 25.9 Lesson *Notes ONLY*) | NC.M3.G-CO. 10 | -verify theorems about centers of triangles | Day 3 HW |
| M | 22-Oct | QUIZ (Day 1-2) <br> Derive Equation of Circle by Pythagorean Theorem | NC.M3.G-GPE. 1 | -relate the equation for a circle to the pythagorean theorem | Day 4 HW |
| T | 23-Oct | Find Center \& Radius by Completing the Square | NC.M3.G-GPE. 1 | -complete the square | Day 5 HW |
| W | 24-Oct | Radian Measure | NC.M3.G-C. 5 | -relate arc length to angle measure | Day 6 HW Pre-Requisite Quiz Due by Midnight |
| TH | 25-Oct | [Cumulative Exams Period 1 \& 3] Arc Length | NC.M3.G-C. 5 | -determine the area of a sector and the length of an arc | Day 7 HW |
| F | 26-Oct | [Cumulative Exams Period 2 \& 4] Angles \& Segments in Circles | NC.M3.G-C. 2 | -understand the geometric relationships between angles, segments and lines within a circle | Day 8 HW |
| TH | 25-Oct | Review |  |  | Study! |
| F | 26-Oct | Unit 4 Test |  |  |  |
| M | 29-Oct | Polynomial Review |  |  |  |
| T | 30-Oct | END QUARTER 1 Factoring/Quadratic Formula Review |  |  |  |

