**Secondary Math 2: Quarter 2 Syllabus**

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| **Section** | **Assignment** | **Learning Targets** | **Confidence** |
| **Unit 3 – Trigonometry**  Essential Standard: I can solve right triangles using trigonometry. | | | |
| 3-1 Pythagorean Theorem | HW 3-1 | **3-1a:** I can use the Pythagorean to find missing sides of a right triangle.  **3-1b:** I can simplify radical expressions. | 1 2 3 4  1 2 3 4 |
| 3-2 Trig Ratios | HW 3-2 | **3-2:** I can find the trig ratios of the sides in a right triangle. | 1 2 3 4 |
| 3-3 Sides Using Trig | HW 3-3 | **3-3a:** I can find a missing side of a triangle using trig ratios.  **3-3b:** I can use a calculator to find the trig ratio for an angle. | 1 2 3 4  1 2 3 4 |
| 3-4 Special Rights | HW 3-4 | **3-4a:** I can use the ratio of sides in 30-60-90 and 45-45-90 triangles to find a missing side length.  **3-4b:** I can find an exact trig value for a special angle without a calculator. | 1 2 3 4  1 2 3 4 |
| 3-5 Angles Using Trig | HW 3-5 | **3-5a:** I can use trig to find an angle measure in a right triangle.  **3-5b:** I can use trig and inverse trig to solve a right triangle. | 1 2 3 4  1 2 3 4 |
| 3-6 Real-life Trig | HW 3-6 | **3-6:** I can use trig to solve real-life problems. | 1 2 3 4 |
| **Review and Test** | | | |
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| **Unit 4 – Exponents**  Essential Standard: I can simplify exponent expressions. | | | |
| 4-1 Multiplying with Exponents | HW 4-1 | **4-1:** I can use rules of exponents (multiplication, power to power) | 1 2 3 4 |
| 4-2 Dividing with Exponents | HW 4-2 | **4-2:** I can use rules of exponents (division, zero, negative) | 1 2 3 4 |
| 4-3 Radical Expressions | HW 4-3 | **4-3:** I can simplify radicals by finding their perfect root factors. | 1 2 3 4 |
| 4-4 Exponential and Radical Form | HW 4-4 | **4-4a:** I can simplify values with rational exponents.  **4-4b:** I can change between exponential and radical form. | 1 2 3 4  1 2 3 4 |
| 4-5 Rational Exponents | HW 4-5 | **4-5:** I can apply rules of exponents to rational exponents. | 1 2 3 4 |
| **Review and Test** | | | |
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| **Unit 5 – Functions**  Essential Standard: I can describe properties of functions. | | | |
| 5-1 Functions and Relations | HW 5-1 | **5-1a:** I can evaluate functions.  **5-1b:** I can use function notation.  **5-1c:** I can determine if a relation is a function. | 1 2 3 4  1 2 3 4  1 2 3 4 |
| 5-2 Domain and Range | HW 5-2 | **5-2a:** I can identify domain and range.  **5-2b:** I can use interval and set notation. | 1 2 3 4  1 2 3 4 |
| 5-3 Linear, Quadratic, Exponential | HW 5-3 | **5-3:** I can compare linear, quadratic, and exponential functions. | 1 2 3 4 |
| 5-4 Transformations | HW 5-4 | **5-4:** I can use transformations to graph parent functions.  (linear, quadratic, absolute value, exponential) | 1 2 3 4 |
| 5-5 Piecewise Functions | HW 5-5 | **5-5:** I can graph piecewise functions and find the domain and range.  (Limit to linear, quadratic, exponential, absolute value) | 1 2 3 4 |
| **Review and Test** | | | |