Foundations and Pre-Calculus 10

# Outcome Schedule

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| **Outcome** | **Completed by:** | **Check when Complete** |
| **Unit 1 Measurement** | | |
| **FP10.3** Demonstrate understanding of SI and imperial units of measurement including:   * linear measurement * surface area of spheres, and right cones, cylinders, prisms, and pyramids * volume of spheres, and right cones, cylinders, prisms, and pyramids * relationships between and within measurement systems. |  |  |
| **Unit 2 3D Shapes and Triangles** | | |
| **FP10.4** Develop and apply the primary trigonometric ratios (sine, cosine, tangent) to solve problems that involve right triangles. | October 21/25 |  |
| **Unit 3 Exponents and Radicals** | | |
| **FP10.1** Demonstrate understanding of factors of whole numbers by determining the:   * prime factors * greatest common factor * least common multiple * principal square root * cube root. |  |  |
| **FP10.2** Demonstrate understanding of irrational numbers in both radical (including mixed radical) and exponent forms through:   * representing * identifying * simplifying * ordering * relating to rational numbers * applying exponent laws. | November 10 |  |
| **Unit 4 Polynomials** | | |
| **FP10. 5** Demonstrate understanding of the multiplication and factoring of polynomial expressions (concretely, pictorially, and symbolically) including:   * multiplying of monomials, binomials, and trinomials * common factors * trinomial factoring * relating multiplication and factoring of polynomials. | December 5 |  |
| **Unit 5 Linear Relations** | | |
| **FP10.6** Expand and apply understanding of relations and functions including:   * relating data, graphs, and situations * analyzing and interpreting * distinguishing between relations and functions. |  |  |
| **FP10.9** Demonstrate understanding of the writing and application of equations of linear relations, given:   * a graph of a relation * a point that satisfies a relation and the slope of the relation * two distinct points that satisfy a relation * a point that satisfies the relation and the equation of a line parallel or perpendicular to the relation. |  |  |
| **FP10.7** Demonstrate, with and without the use of technology, understanding of slope (concretely, pictorially, and symbolically) with respect to:   * line segments and lines * rate of change * ratio of rise to run * parallel lines * perpendicular lines. |  |  |
| **FP10.8** Demonstrate understanding of linear relations including:   * representing in words, ordered pairs, tables of values, graphs, function notation, and equations * determining characteristics including intercepts, slope, domain, and range * relating different equation forms to each other and to graphs. | January 6 |  |
| **Unit 6 Systems of Linear Equations** | | |
| **FP10.10** Solve problems that involve systems of linear equations in two variables, graphically and algebraically. | January 23 |  |
| **Final** | | |