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.
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| **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.
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| **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.
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| **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.
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| **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.
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| **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** |