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| **Outcome FP10.1** Sections 3.1 & 3.2  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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| **Outcome FP10.1** Sections 3.1 & 3.2  Demonstrate understanding of factors of whole numbers by determining the:   * prime factors * greatest common factor * least common multiple * principal square root * cube root. | | | | | | | | | | |
| NAME | EXAM COMPONENTS (70%) | | | | | | ASSESSMENT-PROJECTS (15%) | | | |
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| **Outcome FP10.2** Chapter 4: Roots and Powers  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. | | | | | | | | | |
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| **Outcome FP10.2** Chapter 4: Roots and Powers  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. | | | | | | | | | | |
| NAME | EXAM COMPONENTS (70%) | | | | | | ASSESSMENT-PROJECTS (15%) | | | |
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| **Outcome FP10.3** Chapter 1 Measurement  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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| **Outcome FP10.3** Chapter 1 Measurement  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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| **Outcome FP10.4** Chapter 2 Trigonometry   * Develop and apply the primary trigonometric ratios (sine, cosine, tangent) to solve problems that involve right triangles. | | | | | | | | | |
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| **Outcome FP10.4** Chapter 2 Trigonometry  Develop and apply the primary trigonometric ratios (sine, cosine, tangent) to solve problems that involve right triangles. | | | | | | | | | | |
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| **Outcome FP10. 5** Sections 3.3 to 3.8  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. | | | | | | | | | |
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| **Outcome FP10. 5** Sections 3.3 to 3.8  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. | | | | | | | | | | |
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| **Outcome FP10.6** Chapter 5: Relations and Functions  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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| **Outcome FP10.6** Chapter 5: Relations and Functions  Expand and apply understanding of relations and functions including:   * relating data, graphs, and situations * analyzing and interpreting * distinguishing between relations and functions. | | | | | | | | | | |
| NAME | EXAM COMPONENTS (70%) | | | | | | ASSESSMENT-PROJECTS (15%) | | | |
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| **Outcome FP10.7** Sections 5.6 & 5.7 and 6.1 & 6.2  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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| **Outcome FP10.7** Sections 5.6 & 5.7 and 6.1 & 6.2  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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| **Outcome FP10.8** Sections 6.3 to 6.8  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. | | | | | | | | | |
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| **Outcome FP10.8** Sections 6.3 to 6.8  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. | | | | | | | | | | |
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| **Outcome FP10.9** Sections 6.3 to 6.8  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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| **Outcome FP10.9** Sections 6.3 to 6.8  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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| **Outcome FP10.10** Chapter 7: Systems of Linear Equations   * Solve problems that involve systems of linear equations in two variables, graphically and algebraically. | | | | | | | | | |
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| **Outcome FP10.10** Chapter 7: Systems of Linear Equations   * Solve problems that involve systems of linear equations in two variables, graphically and algebraically. | | | | | | | | | | |
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