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| **Outcome FP10.1** Sections 3.1 & 3.2Demonstrate 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 & 3.2Demonstrate 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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| NAME | EXAM COMPONENTS (70%) | ASSESSMENT-PROJECTS (15%) |
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| **Outcome FP10.2** Chapter 4: Roots and PowersDemonstrate 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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* applying exponent laws.
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| NAME | EXAM COMPONENTS (70%) | ASSESSMENT-PROJECTS (15%) |
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| **Outcome FP10.3** Chapter 1 MeasurementDemonstrate 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 MeasurementDemonstrate 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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| NAME | EXAM COMPONENTS (70%) | ASSESSMENT-PROJECTS (15%) |
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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 3.8Demonstrate 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 3.8Demonstrate 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 FunctionsExpand 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 FunctionsExpand and apply understanding of relations and functions including:* relating data, graphs, and situations
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* 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 & 6.2Demonstrate, 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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| NAME | ASSESSMENT-ASSIGNMENTS (15%) |
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| **Outcome FP10.7** Sections 5.6 & 5.7 and 6.1 & 6.2Demonstrate, with and without the use of technology, understanding of slope (concretely, pictorially, and symbolically) with respect to:* line segments and lines
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* ratio of rise to run
* parallel lines
* perpendicular lines.
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| NAME | EXAM COMPONENTS (70%) | ASSESSMENT-PROJECTS (15%) |
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| **Outcome FP10.8** Sections 6.3 to 6.8Demonstrate 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 6.8Demonstrate understanding of linear relations including: * representing in words, ordered pairs, tables of values, graphs, function notation, and equations
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* relating different equation forms to each other and to graphs.
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| NAME | EXAM COMPONENTS (70%) | ASSESSMENT-PROJECTS (15%) |
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| **Outcome FP10.9** Sections 6.3 to 6.8Demonstrate 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 6.8Demonstrate understanding of the writing and application of equations of linear relations, given:* a graph of a relation
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* 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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| NAME | EXAM COMPONENTS (70%) | ASSESSMENT-PROJECTS (15%) |
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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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| NAME | EXAM COMPONENTS (70%) | ASSESSMENT-PROJECTS (15%) |
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