Students will be asked to demonstrate that they are able to:

- Write algebraic expressions.
- Simplify expressions involving exponents.
- Use the order of operations to evaluate expressions.
- Classify, graph, and compare real numbers.
- Find and estimate square roots.
- Operate on integers.
- Use the Distributive Property to simplify expressions.
- Solve equations in one variable.
- Solve equations and inequalities involving absolute values.
- Rewrite and use literal equations and formulas.
- Solve and apply proportions.
- Solve percent problems using proportions.
- Solve percent problems using percent equation.
- Write, graph, and identify solutions of inequalities.
- Solve inequalities.
- Determine whether a relationship is a function.
- Find domain and range and use function notation.
- Transform functions, using rigid transformations.
- Find slope.
- Write linear equations.
- Graph linear equations in two variables.
- Use linear inequalities when modeling real-world situations.
- Determine whether lines are parallel, perpendicular, or neither.
- Write equations of parallel lines and perpendicular lines.
- Solve systems of equations by graphing.
- Solve systems of equations.
- Solve systems of linear inequalities by graphing.
- Solve quadratics.
- Graph quadratic functions.
- Simplify complex numbers.
- Operate on complex numbers.
• Simplify expressions involving zero and negative exponents.
• Multiply powers with the same base.
• Raise a power to a power.
• Raise a product to a power.
• Divide powers with the same base.
• Raise a quotient to a power.
• Solve radical equations.
• Graph exponential functions.
• Measure and classify angles.
• Apply the triangle sum theorem.
• Apply the line segment theorem.
• Use definition of complementary and supplementary angles.
• Classify triangles.
• Solve triangles.
• Define key terms in Geometry.
• Identify angle relationships with parallel lines cut by a transversal.
• Prove congruency.
• Prove similarity.
• Solve for missing sides or angles using congruency and similarity.
• Use the angle sum theorem.
• Calculate area and perimeter.
• Apply theorems regarding arcs and segments within circles.
• Calculate probability.
• Summarize data.

The following topics should also be mastered prior to beginning Integrated Math 3 but are not assessed on this test.

Students will be expected to be able to:
• Use trigonometry to solve for missing sides and angles of right triangles.
• Prove the Pythagorean Theorem.
• Apply the Pythagorean Theorem.
• Calculate Surface Area and Volume.