

* Units 1 - 8 must be completed to sit for "Math A" exam

| UNITS | SKILLS | TYPE OF ASSESSMENT USED | TECHNOLOGY LINK |
|---|--|--|-----------------|
| Introducing Coordinate Geometry Formulas | <ul style="list-style-type: none"> ● Absolute Value ● Use distance, midpoint, slope formulas ● Parallels and perpendiculars | <ul style="list-style-type: none"> ● Paper and pencil test ● Multiple choice ● Short answer ● Problems | |
| Graphing Lines & Parabolas Solving Systems | <ul style="list-style-type: none"> ● Graphing Lines ● Writing Equations of Lines ● Graphing Parabolas ● Graphics and Algebraic Solutions to Quadratic-Linear Systems | <ul style="list-style-type: none"> ● Paper and pencil test ● Multiple choice ● Short answer ● Problems | |
| Quadratic Equations | <ul style="list-style-type: none"> ● Use of quadratic formula ● Discriminant ● Geometric Applications ● Graphic Solutions to Quadratic Equations | <ul style="list-style-type: none"> ● Paper and pencil ● Multiple choice ● Short answer ● Problems | |
| Algebraic Fractions | <ul style="list-style-type: none"> ● Reduce, add, subtract, multiply and divide algebraic fractions ● Solve fractional equations | <ul style="list-style-type: none"> ● Paper and pencil test ● Multiple choice ● Short answer ● Problems | |
| Transformations | <ul style="list-style-type: none"> ● Line, point and rotational symmetry ● Transformation in coordinate geometry, line and point reflections, rotations, dilations | <ul style="list-style-type: none"> ● Paper and pencil test ● Multiple choice ● Short answer ● Problems | |
| Probability | <ul style="list-style-type: none"> ● Counting principal problems with two or more activities ● Permutations, combinations ● Probability with combinations | <ul style="list-style-type: none"> ● Paper and pencil test ● Multiple choice ● Short answer ● Problems | |

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| Constructions | <ul style="list-style-type: none"> • Six basic constructions • Using basic constructions | <ul style="list-style-type: none"> • Quiz • Take-Home-Project | |
| Trigonometry of Right Triangle | <ul style="list-style-type: none"> • Introduce trigonometry • Use sine, cosine, tangent to solve problems | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |
| Geometry Definitions | <ul style="list-style-type: none"> • Learn & use properties of real numbers • Definitions in geometry | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |
| Logic | <ul style="list-style-type: none"> • Learn & use Laws of Reasoning • Use Laws of Reasoning in logic proof | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |
| Proof and Congruence | <ul style="list-style-type: none"> • Drawing conclusions • Proving triangles congruent • ASA, SAS, SSS • Line segments in triangles | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |
| Geometric Inequalities Parallels and Perpendiculars | <ul style="list-style-type: none"> • Postulates of Inequalities • Theorems of geometric inequalities • Parallel lines • Interior and exterior angles of polygons • AAS, HL | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |

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| Quadrilaterals | <ul style="list-style-type: none"> • Properties of parallelograms, rectangles, rhombus, square and trapezoid | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |
| Ratio, Proportion Similarity | <ul style="list-style-type: none"> • Mean proportional • Dimension analysis • Mid-points theorem • Triangle proportionality • Similar polygons • Proportions in right triangle • Pythagorean Theorem • Special right triangles | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |
| Locus | <ul style="list-style-type: none"> • Five basic loci • Locus & coordinates • Equation of circle • Intersection of loci | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |
| Mathematical Systems | <ul style="list-style-type: none"> • Finding the identity • Finding inverses • Solving equations | <ul style="list-style-type: none"> • Paper and pencil test • Multiple choice • Short answer • Problems | |