TIME	CONTENT	SKILLS	VOCABULARY
September (3 weeks)	 UNIT 11: Coordinate Geometry Radicals Write linear equations Coordinate area and perimeter Graphing linear equations Coordinate area – inscribed polygons Informal coordinate proofs 	 Distance midpoint/slope formulas Area formulas Triangle properties Quadrilateral properties 	midpoint bisect median parallel altitude perpendicular
September - October (3 weeks)	 <u>UNITS 12: Quadratic Equations</u> Solving graphically Solving algebraically Real world applications 	 Factoring Setting up a table of values Calculating axis of symmetry Using the graphing utility (window/left bound, right bound) 	axis of symmetry turning point vertex (maximum/minimum) parabola
October (3 weeks)	 UNIT 13: Systems of Equations Types of systems Linear linear Quadratic linear Circles quadratic and circle linear Modeling real world systems 	 Solving systems algebraically (elimination and substitution Solving systems graphically Slope-intercept method Solution sets 	solution set point of intersection

TIME	CONTENT	SKILLS	VOCABULARY
November (2 weeks)	 UNIT 14: Locus Non-technical introduction (real-world problems) Review coordinate geometry Review graphing quadratic equations Simple and compound locus problems Area, circumference of a circle 	 5 basic locus theorems Writing equations of lines Lines parallel and perpendicular to the axis Equations of circles Reading for critical information Using a compass and straight edge 	locus bisector fixed distance equidistant perpendicular (bisector)
November (1 week)	 <u>UNIT 15: Constructions</u> Angles Bisectors Perpendicular Segments Midpoint Median Bisect Parallel lines 	 Applying the basic constructions Using a compass and straight edge 	midpoint median altitude bisect parallel

November- December (3 weeks)	 <u>UNIT 16: Uncertainty</u> Single event with emphasis on and and or probabilities Compound events with and without replacement Permutations Combinations Set theory Counting principle 	 Basic probability Sample space (tree diagram) Identifying and reasoning the appropriate method of solution 	ordered null set factorial not ordered subset outcome set impossibility complement tally certainty mutually exclusive frequency table union independent event experimental intersection theoretical
December – January (2 weeks)	 <u>UNIT 17: Statistics</u> Measures of central tendency Varied applications Graphical representations Analysis 	 Mean, median, mode Histogram Box plot Stem and leaf plots Circle graph Scatter plot Quartile Percentile 	mean median mode range tally ascending order descending order frequency

January (1 week)	 UNIT 18: Logic Statements Inverse Converse Contrapositive Conditional statements Converse Converse Contrapositive Logical equivalence 	 Applied problems using the properties of polygons 	inverse converse contrapositive equivalent
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