

Dates	Content
Aug. 11 - Aug. 31 (15 days)	<p>Unit 1: Functions and Exponents</p> <ul style="list-style-type: none"> ● Absolute Value Functions ● Piecewise Functions ● Inverse of a Function (Quiz) ● Properties of Exponents ● Radicals and Rational Exponents ● Exponential Functions ● Performance Task: Pool Shots (Review and Test)
Sept. 1 - Sept. 24 (17 days)	<p>Unit 2: Polynomial Equations and Factoring</p> <ul style="list-style-type: none"> ● Adding and Subtracting Polynomials ● Multiplying Polynomials ● Special Products of Polynomials ● Solving Polynomial Equations in Factored Form (Quiz) ● Factoring $x^2 + bx + c$ ● Factoring $ax^2 + bx + c$ ● Factoring Special Products ● Factoring Polynomials Completely ● Performance Task: Flight Path of a Bird (Review and Test)
Sept. 27 - Oct. 22 (15 days)	<p>Unit 3: Graphing Quadratic Functions</p> <ul style="list-style-type: none"> ● Graphing $f(x) = ax^2$ ● Graphing $f(x) = ax^2 + c$ ● Graphing $f(x) = ax^2 + bx + c$ (Quiz) ● Graphing $f(x) = a(x - h)^2 + k$ ● Graphing $f(x) = a(x - p)(x - q)$ ● Focus of a Parabola ● Comparing Linear, Exponential, and Quadratic Functions ● Performance Task: Solar Energy (Review and Test)
Oct. 25 - Nov. 19 (20 days)	<p>Unit 4: Solving Quadratic Equations</p> <ul style="list-style-type: none"> ● Properties of Radicals ● Solving by Graphing ● Solving using Square Roots ● Solving by Completing the Square ● Solving using the Quadratic Formula (Quiz) ● Complex Numbers ● Solving Quadratic Equations with Complex Solutions ● Solving Nonlinear Systems of Equations ● Quadratic Inequalities ● Performance Task: The Golden Ratio (Review and Test)

Nov. 22 - Dec. 17 (17 Days)	<p>Unit 5: Probability</p> <ul style="list-style-type: none"> ● Sample Spaces and Probability ● Independent and Dependent Events ● Two-Way Tables and Probability (Quiz) ● Probability of Disjoint and Overlapping Events ● Permutations and Combinations ● Binomial Distributions ● Performance Task: Risk Analysis (Review and Test)
Jan. 3 - Jan. 21 (14 days)	<p>Unit 6: Relationships Within Triangles</p> <ul style="list-style-type: none"> ● Proving Geometric Relationships ● Perpendicular and Angle Bisectors ● Bisectors of Triangles ● Medians and Altitudes of Triangles (Quiz) ● Triangle Midsegment Theorem ● Indirect Proof and Inequalities in One Triangle ● Inequalities in Two Triangles ● Performance Task: Building a Roof Truss (Review and Test)
Jan. 24 - Feb. 11 (15 days)	<p>Unit 7: Quadrilaterals and Other Polygons</p> <ul style="list-style-type: none"> ● Angles of Polygons ● Properties of Parallelograms ● Proving that a Quadrilateral is a Parallelogram (Quiz) ● Properties of Special Parallelograms ● Properties of Trapezoids and Kites ● Performance Task: Diamonds (Review and Test)
Feb. 14 - Feb. 25 (9 days)	<p>Unit 8: Similarity</p> <ul style="list-style-type: none"> ● Dilations ● Similarity and Transformations ● Similar Polygons ● Proving Triangle Similarity: AA (Quiz) ● Proving Triangle Similarity: SSS and SAS ● Proportionality Theorems ● Performance Task: Pool Maintenance (Review and Test)
Feb. 28 - Mar. 16 (13 days)	<p>Unit 9: Right Triangles and Trigonometry</p> <ul style="list-style-type: none"> ● The Pythagorean Theorem ● Special Right Triangles ● Similar Right Triangles (Quiz) ● The Tangent Ratio ● The Sine and Cosine Ratios ● Solving Right Triangles

	<ul style="list-style-type: none"> ● Performance Task: Challenging the Rock Wall (Review and Test)
Mar. 17 - Apr. 1 (12 days)	Unit 10: Circles <ul style="list-style-type: none"> ● Lines and Segments that Intersect Circles ● Finding Arc Measures ● Using Chords (Quiz) ● Inscribed Angles and Polygons ● Angle Relationships in Circles ● Segment Relationships in Circles ● Circles in the Coordinate Plane ● Performance Task: Finding Locations (Review and Test)
Apr. 11- Apr. 29 (15 days)	Unit 11: Circumference, Area, and Volume <ul style="list-style-type: none"> ● Circumference and Arc Length ● Areas of Circles and Sectors ● Areas of Polygons (Quiz) ● Volumes of Prisms and Cylinders ● Volumes of Pyramids ● Surface Areas and Volumes of Cones ● Surface Areas and Volumes of Spheres ● Performance Task: Tabletop Tiling (Review and Test)
May 2 - TBA	Review and Final Exam

Financial Literacy lessons will be incorporated throughout the year. Topics will include:

- banking services
- payroll
- taxes
- insurance
- purchasing
- mark-ups and mark-downs
- interest
- consumer credit and mortgages