



Essential
Resources

District Resources to Teach 100% of the TEKS located in the NBISD ECourse Resources, [Geometry Online Textbook](#)

Link to TEKS: <https://tea.texas.gov/curriculum/teks/>

Process Skills Embedded in All Lessons: G.1(A) apply mathematics to problems arising in everyday life, society, and the workplace

G.1(B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution G.1(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems

Spiraled TEKS

Timeline		1st Quarter Aug 24 - Oct 16, 2020 (38 Instructional Days)			2nd Quarter Oct 19 - Dec 18, 2020 (40 Instructional Days)		
Unit		Unit 1 Tools of Geometry	Unit 2 Reasoning and Proof	Unit 3 Lines and Angles	Unit 4 Parallel and Perpendicular Lines	Unit 5 Similar Polygons	Unit 6 Transformational Geometry
Big Idea	Current Grade	Understand the relationships between points, lines, planes, and angles. Find the measurement of segments and angles and see how they relate to each other. Construct congruent angles and segments, bisectors, and parallel lines using a straightedge and a compass.	Use inductive & deductive reasoning to find patterns. Identify and determine the validity of the converse, inverse, contrapositive, and biconditional statements. Write algebraic and geometric two column and paragraph proofs	Analyze angle relationships including angles formed by a transversal, vertical angles, and triangles.	Construct parallel and perpendicular lines. Write equations of linear functions with a focus on parallel and perpendicular lines	Derive and use the midpoint and distance formulas to prove lines parallel or perpendicular. Analyze midsegments, perpendicular and angle bisectors, medians, and altitudes of triangles. Verify and apply the Triangle Inequality Theorem and then Hinge Theorem using triangle inequalities.	Describe and perform transformations of figures in a plane using coordinate notation. Perform compositions of rigid transformations: translations, reflections, and rotations. Perform non-rigid transformations such as dilations, horizontal and vertical stretches and compressions
	Previous Grade: Algebra I	All TEKS from previous course necessary for success in Geometry were fully taught in the previous course, even with COVID-19 Remote Learning			All TEKS from previous course necessary for success in Geometry were fully taught in the previous course, even with COVID-19 Remote Learning		
TEKS	Current Grade	G.2A, G.2B, G.5B, G.4A, G.6A	G.4A, G.4B, G.4C	G.2C, G.5A, G.6A	G.4B, G.4C, G.4D, G.5A, G.5C, G.6B, G.6C, G.6D	G.2B, G.5A, G.5B, G.5C, G.5D, G.6A, G.6D	G.3A, G.3B, G.3C, G.3D
	Previous Grade: Algebra I	All TEKS from previous course necessary for success in Geometry were fully taught in the previous course, even with COVID-19 Remote Learning			All TEKS from previous course necessary for success in Geometry were fully taught in the previous course, even with COVID-19 Remote Learning		
Timeline		3rd Quarter Jan 4 - March 12, 2021 (48 Instructional Days)			4th Quarter March 22 - May 27, 2021 (48 Instructional Days)		
Unit		Unit 7 and 8 Special Right Triangles and Right Triangle Trigonometry	Unit 9 Quadrilaterals	Unit 10 Circles	Unit 11 Perimeter and Area	Unit 12 Surface Area And Volume	Unit 13 Probability
Big Idea	Current Grade	Apply the relationships in special right triangles to solve problems. Apply the Pythagorean Theorem and its converse to solve problems. Determine the lengths of sides and measures of angles in a right triangle by applying the trigonometric ratios sine, cosine, and tangent to solve problems.	Classify polygons based on angles and sides and find the sum of the interior angles. Analyze properties of Parallelograms, including Rhombuses, Rectangles, and Squares. Compare non-parallel quadrilaterals such as Trapezoids and Kites.	Apply proportional relationships between the measure of an arc length and the circumference and the sector area and the total area of a circle. Describe radian measure of an angle as the ratio of the length of an arc to the radius. Write equations of circles and graph in the coordinate plane. Apply properties of tangent lines, secant lines, inscribed angles, and chords to solve problems.	Determine the area of two-dimensional figures such as triangles, parallelograms, trapezoids, kites, and regular polygons. Compare the ratios of perimeters and areas of similar figures. Apply the properties of special right triangles and trigonometric ratios to find the area of triangles	Identify the shapes of 2-dimensional cross sections of dimensional figures. Find the surface area and volume of Prisms, Cylinders, Pyramids, Cones and Spheres. Compare the ratios of scale factor, surface area, and volume	Compute the probability of two events occurring together with or without replacement. Determine experimental, theoretical, and geometric probabilities. Develop strategies to use permutations and combinations to solve contextual problems.
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TEKS	Current Grade	G.4B, G.5A, G.6D, G.7A, G.8A, G.8B, G.9A, G.9B	G.2B, G.2C, G.4B, G.5A, G.6D, G.6E	G.3A, G.7A, G.7B, G.8A	G.2B, G.4B, G.5A, G.10B, G.11A, G.11B, G.12B, G.12C	G.4D, G.9B, G.10A, G.10B, G.11B, G.11C, G.11D	G.13A, G.13B, G.13C, G.13D, G.13E
	Previous Grade: Algebra I	All TEKS from previous course necessary for success in Geometry were fully taught in the previous course, even with COVID-19 Remote Learning			All TEKS from previous course necessary for success in Geometry were fully taught in the previous course, even with COVID-19 Remote Learning		