


# Geom - 1<sup>st</sup> Six Weeks 2023-2024

TEKS: G1A G1B G1C G1D G1E G1F G1G on going

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8/14	8/15	8/16	8/17	8/18
Teacher Workday Student Holiday	Teacher Workday Student Holiday	<b>First Day of School</b>  Syllabus Day; 100s chart; "Name the Game" Objective: What does group work look like?	Solve Two Step Equations Scavenger Hunt in groups Objective: How do we work as a team and make sure all participate?	Use google to look up vocabulary Sub in the Room Intro to Vocabulary List for Unit 1 G4A
8/21	8/22	8/23	8/24	8/25
Basic Vocabulary  Match Mine Activity  G4A	More Basic Vocabulary  HW#1 G4A	Review all words  Practice drawings at the board, introduce between and seg add post	Quiz – Basic Vocabulary and Drawing Diagrams	Segment Addition Postulate HW#2
8/29	8/29	8/30	8/31	9/1 Progress Reports
Midpoint, Bisect  HW#2	Review	Test	Distance and Midpoint Amusement Park Activity G2B	Distance and Midpoint Formulas  Math Lib G2B
9/4	9/5	9/6	9/7	9/8
<b>Holiday</b>  	Distance and Midpoint Formulas HW#3 G2B	Partition a Segment Board Work G2A	Partition a Segment HW#4 G2A	Quiz – Distance Midpoint Partition And Seg Add Post
9/11	9/12	9/13	9/14	9/15
Classify and Name Angles Protractor Activity	Vocabulary and complete Protractor Activity	Angle Addition Postulate, Angle Bisector HW#5 G6A	Angle Addition Postulate, Angle Bisector HW#5 G6A	Angle Pair Relationships Board work G6A
9/18	9/19	9/20	9/21	9/22
Review	Test	Angle Pair Relationships HW#6	Quiz – Math Lib Activity over Angle Pair Relationships	Constructions G5B G5C

# 2<sup>nd</sup> Six Weeks 2023-2024

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9/25	9/26	9/27	9/28 Early dismissal	9/29
Conditional Statements And Biconditional G4B G4C	Conditional Statements G4B G4C	Conditional Statements I Have Who Has G4B G4C		<b>Ft. Bend County Fair</b> 
10/2	10/3	10/4	10/5	10/6
Deductive Reasoning	Quiz Law of Syllogism Commercials G4A B C	Intro to Algebraic Properties and Algebraic Proof G4A B C G6A	Segment Proofs G4A B C G6A	Angle Proofs G4A B C G6A
10/9	10/10	10/11	10/12	10/13
Partial Proofs Partial Proofs Segment and Angle Scavenger Hunt G4A B C G6A	Quiz	Finish Quiz  Complete Proof Puzzles	<b>Austin County Fair</b> 	<b>Austin County Fair</b> 
10/16 Progress Report	10/17	10/18	10/19	10/20
Parallel and Perpendicular Vocabulary G5A G6A	Parallel Lines cut by a Transversal G5A G6A	Use Algebra with parallel Lines G5A G6A	Quiz – Parallel Lines cut by a transversal	Giant Angle challenge G5A G6A
10/23	10/24	10/25	10/26	10/27
Prove Lines are Parallel with Algebra G5A G6A	Prove Lines are Parallel with Algebra G5A G6A	Review  Proofs for Honors	TEST	Slope Review G2C G5A
10/30	10/31	11/1	11/2	11/3
Parallel and Perpendicular Slope G2C G5A	Write Equations in Slope Intercept form G2C G5A			Write Equations in Point Slope Form G2C G5A

# 3<sup>rd</sup> Six Weeks 2023-2024

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11/6	11/7	11/8	11/9	11/10
More Practice writing equations of lines	ASVAB (11 <sup>th</sup> graders)  TEST	Patty Paper Transformations	Overview of All Transformations G3A, B, C, D	Translations G3A, B, C, D
11/13	11/14	11/15	11/16	11/17
Reflections G3A, B, C, D	Rotations G3A, B, C, D	Quiz Translations and Reflections	Dilations G3A, B, C, D	Sequence of Transformations G3A, B, C, D
11/20	11/21	11/22	11/23	11/24
 <b>THANKSGIVING BREAK</b>				
11/27	11/28	11/29	11/30	12/1 Progress Reports
Review of all Transformations G3A, B, C, D  Symmetry	Review	Test	What makes a triangle math medic activity Classify Triangles G6 C D	Classify Triangles G6 C D
12/4	12/5	12/6	12/7	12/8
STAAR Re-testing  Triangle inequality Activity– Math Medic	Triangle Inequality and Hinge Theorem  G6 C D	STAAR Re-testing  Triangle sum Activities – Math Medic	STAAR Re-testing (if needed)  Triangle Sum Theorem with Algebra G6 C D	STAAR Re-testing  Triangle Sum Theorem and Exterior Angle Theorem G6 C D
12/11	12/12	12/13	12/14	12/15
Equilateral and Isosceles Triangles G6 C D	Quiz	Congruent Triangles G6 B	Semester Review	Semester Review
12/18	12/19 Early Dismissal	12/20 Early Dismissal	12/21 Early Dismissal	12/22
Semester Review	SEMESTER EXAMS	SEMESTER EXAMS	SEMESTER EXAMS	<b>SCHOOL HOLIDAY</b>

# 4<sup>th</sup> Six Weeks 2023-2024

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1/8	1/9	1/10	1/11	1/12
<b>Teacher Workday Student Holiday</b>	Review all Triangles – classify, triangle sum theorem, exterior angle theorem, isosceles and equilateral	Using advanced algebra with triangles	Road Kill Café	Road Kill Café – ways to prove that triangles are congruent
1/15	1/16	1/17	1/18	1/19
<b>MLK Day Holiday</b>	<p>Proving triangles congruent</p> <p>(5) Logical argument and constructions. The student uses constructions to validate conjectures about geometric figures. The student is expected to:</p> <p>(A) investigate patterns to make conjectures about geometric relationships, including angles formed by parallel lines cut by a transversal, criteria required for triangle congruence, special segments of triangles, diagonals of quadrilaterals, interior and exterior angles of polygons, and special segments and angles of circles choosing from a variety of tools;</p> <p>(B) construct congruent segments, congruent angles, a segment bisector, an angle bisector, perpendicular lines, the perpendicular bisector of a line segment, and a line parallel to a given line through a point not on a line using a compass and a straightedge;</p> <p>(C) use the constructions of congruent segments, congruent angles, angle bisectors, and perpendicular bisectors to make conjectures about geometric relationships; and</p> <p>(D) verify the Triangle Inequality theorem using constructions and apply the theorem to solve problems.</p> <p>(6) Proof and congruence. The student uses the process skills with deductive reasoning to prove and apply theorems by using a variety of methods such as coordinate, transformational, and axiomatic and formats such as two-column, paragraph, and flow chart. The student is expected to:</p> <p>(A) verify theorems about angles formed by the intersection of lines and line</p>	Cut Paste Activity for Proving Triangles congruent	Proofs with congruent triangles	Proofs with congruent triangles



	<p>segments, including vertical angles, and angles formed by parallel lines cut by a transversal and prove equidistance between the endpoints of a segment and points on its perpendicular bisector and apply these relationships to solve problems;</p> <p>(B) prove two triangles are congruent by applying the Side-Angle-Side, Angle-Side-Angle, Side-Side-Side, Angle-Angle-Side, and Hypotenuse-Leg congruence conditions;</p> <p>(C) apply the definition of congruence, in terms of rigid transformations, to identify congruent figures and their corresponding sides and angles;</p>			
1/22	1/23	1/24	1/25	1/26
Test Part 1	Test Part 2	Midsegments	Special Segments overview – Perp Bis and Angle Bis	Circumcenter and Incenter
1/29 Progress Reports	1/30	1/31	2/1	2/2
Median and Altitude	Orthocenter and Centroid	Special Segment Quiz	<p>Special Segments in the Coordinate Plane</p> <p>(2) Coordinate and transformational geometry. The student uses the process skills to understand the connections between algebra and geometry and uses the one- and two-dimensional coordinate systems to verify geometric conjectures. The student is expected to:</p> <p>(A) determine the coordinates of a point that is a given fractional distance less than one from one end of a line segment to the other in one- and two-dimensional coordinate systems, including finding the midpoint;</p> <p>(B) derive and use the distance, slope, and midpoint formulas to verify geometric relationships, including congruence of segments and parallelism or perpendicularity of pairs of lines; and</p> <p>(C) determine an equation of a line parallel or perpendicular to a given line that passes through a given point.</p> <p>(3) Coordinate and transformational geometry. The student uses the process skills to generate and describe rigid transformations (translation, reflection, and rotation) and non-rigid</p>	Review

			<p>transformations (dilations that preserve similarity and reductions and enlargements that do not preserve similarity). The student is expected to:</p> <p>(A) describe and perform transformations of figures in a plane using coordinate notation;</p> <p>(B) determine the image or pre-image of a given two-dimensional figure under a composition of rigid transformations, a composition of non-rigid transformations, and a composition of both, including dilations where the center can be any point in the plane;</p> <p>(C) identify the sequence of transformations that will carry a given pre-image onto an image on and off the coordinate plane; and</p> <p>(D) identify and distinguish between reflectional and rotational symmetry in a plane figure.</p>	
2/5	2/6	2/7	2/8	2/9
Special Segments Test	<p><b>Ratios and Proportions</b></p> <p>7) Similarity, proof, and trigonometry. The student uses the process skills in applying similarity to solve problems. The student is expected to:</p> <p>(A) apply the definition of similarity in terms of a dilation to identify similar figures and their proportional sides and the congruent corresponding angles; and</p> <p>(B) apply the Angle-Angle criterion to verify similar triangles and apply the proportionality of the corresponding sides to solve problems.</p> <p>(8) Similarity, proof, and trigonometry. The student uses the process skills with deductive reasoning to prove and apply theorems by using a variety of methods such as coordinate, transformational, and axiomatic and formats such as two-column, paragraph, and flow chart. The student is expected to:</p> <p>(A) prove theorems about similar triangles, including the Triangle Proportionality theorem, and apply these theorems to solve problems</p>	Extended Ratios Scavenger Hunt	Similar Triangles Math Lib	Similar Triangles
2/12	2/13	2/14	2/15	2/16

Similar Triangles Scavenger Hunt	Proving Triangles similar – AA SAS	Triangle Proportionality Theorem Parts of Similar Triangles	Similar Triangles Quiz – Relay Race Worksheet	Similarity Applications
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## 5<sup>th</sup> Six Weeks 2023-2024

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
2/19	2/20	2/21	2/22	2/23
<b>President's Day Student Holiday Teacher Workday</b>	<p style="text-align: center;"><b>Similarity Applications</b></p> <p>(7) Similarity, proof, and trigonometry. The student uses the process skills in applying similarity to solve problems. The student is expected to:</p> <p>(A) apply the definition of similarity in terms of a dilation to identify similar figures and their proportional sides and the congruent corresponding angles; and</p> <p>(B) apply the Angle-Angle criterion to verify similar triangles and apply the proportionality of the corresponding sides to solve problems. (8) Similarity, proof, and trigonometry. The student uses the process skills with deductive reasoning to prove and apply theorems by using a variety of methods such as coordinate, transformational, and axiomatic and formats such as two-column, paragraph, and flow chart. The student is expected to:</p> <p>(A) prove theorems about similar triangles, including the Triangle Proportionality theorem, and apply these theorems to solve problems</p>	TEST - Similarity	Review of Radicals	Review of Radicals
2/26	2/27	2/28	2/29	3/1
<p style="text-align: center;"><b>Pythagorean Theorem Notes and Math Lib</b></p> <p>(6) Proof and congruence. The student uses the process skills with deductive reasoning to prove and apply theorems by using a variety of methods such as coordinate, transformational, and axiomatic and formats such as two-column, paragraph, and flow chart. The student is expected to:</p> <p>(D) verify theorems about the relationships in triangles, including proof of the Pythagorean Theorem, the sum of interior angles, base</p>	Simplify Radicals Quiz	Converse of Pythagorean Theorem and Maze	Converse of Pythagorean Theorem in the coordinate plane	<p style="text-align: center;"><b>Pythagorean Theorem Quiz - Intro to Specials</b></p> <p>Find missing sides by Pythagorean Theorem Look for patterns pg 9-12</p> <p>(8) Similarity, proof, and trigonometry. The student uses the process skills with deductive reasoning to prove and apply theorems by using a variety of methods such as coordinate, transformational, and axiomatic and formats such as two-column, paragraph, and flow chart. The student is expected to:</p> <p>(B) identify and apply the relationships that exist</p>

angles of isosceles triangles, midsegments, and medians, and apply these relationships to solve problems				when an altitude is drawn to the hypotenuse of a right triangle, including the geometric mean, to solve problems. (9) Similarity, proof, and trigonometry. The student uses the process skills to understand and apply relationships in right triangles. The student is expected to: (B) apply the relationships in special right triangles $30^\circ$ - $60^\circ$ - $90^\circ$ and $45^\circ$ - $45^\circ$ - $90^\circ$ and the Pythagorean theorem, including Pythagorean triples, to solve problems
3/4	3/5	3/6	3/7	3/8 Progress Reports
Special Right Triangle Notes  Mazes pgs 13-15	Work on mazes	Special Right Triangles HW#2 pg 17-18  Special Right Triangle QUIZ	Review  Review Specials with Giant Puzzle	TEST
3/11	3/12	3/13	3/14	3/15
 <h1 style="text-align: center;">SPRING BREAK</h1>				
3/18	3/19	3/20	3/21	3/22
Geometric Mean Notes	Geometric Mean and Similar Right Triangles HW#3 pg 19-20	Trig Ratios SOH CAH TOA Pg 21 (9) Similarity, proof, and trigonometry. The student uses the process skills to understand and apply relationships in right triangles. The student is expected to: (A) 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; and (B) apply the relationships in special right triangles $30^\circ$ - $60^\circ$ - $90^\circ$ and $45^\circ$ - $45^\circ$ - $90^\circ$ and the Pythagorean theorem, including Pythagorean triples, to solve problems	Use SOH CAH TOA to write ratios and find lengths of sides Page 22	Maze Pg 23  How to find angles with inverse ratios
3/25	3/26	4/1	3/28	3/29
Review Pg 24 Find Sides and Angles HW#4 pg 25-26 Maze pg 27	Angles of Elevation and Depression Pg 31-32	Review All Trig and Angles of Elevation and Depression HW#6 pg 33-34 Trig Review pg 35--36	Angles of Elevation and Depression Pg 31-32	<b>Easter Holiday</b>  
	4/2	4/3	4/4	4/5



<p><b>Teacher Workday</b> <b>Student Holiday</b></p>	<p>Review</p>	<p>TEST – all trigonometry</p>	<p><b>Angles of a Polygon</b> <b>Pgs 1-4</b> (A) verify theorems about angles formed by the intersection of lines and line segments, including vertical angles, and angles formed by parallel lines cut by a transversal and prove equidistance between the endpoints of a segment and points on its perpendicular bisector and apply these relationships to solve problems; (B) prove two triangles are congruent by applying the Side-Angle-Side, Angle-Side-Angle, Side-Side-Side, Angle-Angle-Side, and Hypotenuse-Leg congruence conditions; (C) apply the definition of congruence, in terms of rigid transformations, to identify congruent figures and their corresponding sides and angles; (D) verify theorems about the relationships in triangles, including proof of the Pythagorean Theorem, the sum of interior angles, base angles of isosceles triangles, midsegments, and medians, and apply these relationships to solve problems; and (E) prove a quadrilateral is a parallelogram, rectangle, square, or rhombus using opposite sides, opposite angles, or diagonals and apply these relationships to solve problems</p>	<p><b>Parallelogram</b> <b>Pgs 5-6; 9-10</b></p>
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## 6<sup>th</sup> Six Weeks 2023-2024

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
4/8	4/9	4/10	4/11	4/12
<p>Proving a Quad is a Parallelogram Pg 7 and finish pg 10</p>	<p>Quiz – Angles of a polygon and Parallelograms</p>	<p>Rectangle pgs 12-15</p>	<p>Rhombus and Square Pgs 16-21</p>	<p>Review – Coloring page Review Square Page 21-22</p>
4/15	4/16	4/17	4/18	4/19
<p>Trapezoids</p>	<p>Kites</p>	<p>Quad in the Coordinate Plane Pgs 23-24 (2) Coordinate and transformational geometry. The student uses the process skills to understand the connections between algebra and geometry and uses the one- and two-dimensional coordinate systems to verify geometric conjectures. The student is expected to:</p>	<p>Review</p>	<p>TEST</p>

		<p>(A) determine the coordinates of a point that is a given fractional distance less than one from one end of a line segment to the other in one- and two-dimensional coordinate systems, including finding the midpoint;</p> <p>(B) derive and use the distance, slope, and midpoint formulas to verify geometric relationships, including congruence of segments and parallelism or perpendicularity of pairs of lines; and</p> <p>(C) determine an equation of a line parallel or perpendicular to a given line that passes through a given point.</p> <p>(3) Coordinate and transformational geometry. The student uses the process skills to generate and describe rigid transformations (translation, reflection, and rotation) and non-rigid transformations (dilations that preserve similarity and reductions and enlargements that do not preserve similarity). The student is expected to:</p> <p>(A) describe and perform transformations of figures in a plane using coordinate notation;</p> <p>(B) determine the image or pre-image of a given two-dimensional figure under a composition of rigid transformations, a composition of non-rigid transformations, and a composition of both, including dilations where the center can be any point in the plane;</p> <p>(C) identify the sequence of transformations that will carry a given pre-image onto an image on and off the coordinate plane; and</p> <p>(D) identify and distinguish between reflectional and rotational symmetry in a plane figure.</p>		
4/22	4/23	4/24	4/25	4/26 Progress Reports
<p>Circle Vocabulary pg 1-2; 5 Use <a href="http://www.mathopenref.com">www.mathopenref.com</a></p> <p>(12) Circles. The student uses the process skills to understand geometric relationships and apply theorems and equations about circles. The student is expected to:</p> <p>(A) apply theorems about circles, including relationships among angles, radii, chords,</p>	<p>Area and Circumference of Circles pg 7-8</p>	<p>Central Angles and Arc Measures pg 9-10</p>	<p>Arc Length Pg 11-12</p>	<p>Circles Quiz 1</p>

<p>tangents, and secants, to solve non-contextual problems;</p> <p>(B) apply the proportional relationship between the measure of an arc length of a circle and the circumference of the circle to solve problems;</p> <p>(C) apply the proportional relationship between the measure of the area of a sector of a circle and the area of the circle to solve problems;</p> <p>(D) describe radian measure of an angle as the ratio of the length of an arc intercepted by a central angle and the radius of the circle; and</p> <p>(E) show that the equation of a circle with center at the origin and radius <math>r</math> is <math>x^2 + y^2 = r^2</math> and determine the equation for the graph of a circle with radius <math>r</math> and center <math>(h, k)</math>, <math>(x - h)^2 + (y - k)^2 = r^2</math></p>				
4/29	4/30	5/1	5/2	5/3
<p>Regular – coloring sheet Area Circum and Length Honors Congruent Chords and Arcs pg 13-14</p>	Inscribed Angles pg 15-16	Great Circle	Quiz	<p>Regular –area and Perimeter Honors – TEST (11) Two-dimensional and three-dimensional figures. The student uses the process skills in the application of formulas to determine measures of two- and three-dimensional figures. The student is expected to: (A) apply the formula for the area of regular polygons to solve problems using appropriate units of measure;</p> <p>(B) determine the area of composite two-dimensional figures comprised of a combination of triangles, parallelograms, trapezoids, kites, regular polygons, or sectors of circles to solve problems using appropriate units of measure;</p> <p>(C) apply the formulas for the total and lateral surface area of three-dimensional figures, including prisms, pyramids, cones, cylinders, spheres, and composite figures, to solve problems using appropriate units of measure; and</p> <p>(D) apply the formulas for the volume of three-dimensional figures, including prisms, pyramids, cones, cylinders, spheres, and composite figures, to solve problems using appropriate units of measure.</p>
5/6	5/7	5/8	5/9	5/10

Make-up STAAR Regular – equation of circle Honors – Segments pg 25-26	Regular – Review Circles  Honors – Eq of Circles pg 27-30	Regular –TEST  Honors - Review Test	Regular –area and Perimeter Honors – TEST	Area of Regular polygons and composite figures
5/13	5/14	5/15	5/16	5/17 Early Dismissal
SA and V of Prisms and Cylinders	Make-up STAAR  SA and V of Pyramids and Cones	Surface Area and Volume of Spheres	SA and V of Prisms and Cylinders	<b>Graduation</b>
5/20	5/21 Early Dismissal	5/22 Early Dismissal	5/23 Early Dismissal	5/24
			<b>Last Day of School</b>	<b>Student Holiday Teacher Workday</b>