



GEOMETRY 9 TOPIC OUTLINE

FIRST QUARTER
Introduction to Geometry <ul style="list-style-type: none">★ Points, lines, planes and angles and its properties<ul style="list-style-type: none">○ Parts of lines○ Types of Angles and Angle Pairs★ Theorems related to the characteristics of points, lines, planes and angles
Conditional Statements <ul style="list-style-type: none">★ Converse, inverse, and contrapositive statements★ Biconditional statements
Writing a Proof <ul style="list-style-type: none">★ Ways of writing a proof★ Properties from Algebra★ Proving from these properties
Lines, planes and transversals <ul style="list-style-type: none">★ Properties of parallel lines★ Special pairs of angles and its measurements★ Overview on parallel planes
Proving lines parallel
Polygons and its characteristics Triangles and its types



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SECOND QUARTER
Medians, altitudes, angle bisectors and perpendicular bisectors Proving
Correspondence and Congruence Intro on Proving Triangles congruent
Isosceles Triangle theorem and its converse Exterior Angle Theorem
Properties of inequalities
Inequalities in one triangle ★ Triangle Inequality Theorem
Inequalities in two triangles



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THIRD QUARTER
Quadrilaterals Special Parallelograms <ul style="list-style-type: none">★ Square★ Rectangle★ Rhombus
Trapezoids and Kites
Review on Ratio and Proportion Properties of Proportions Intro to Similarity
Similar Polygons and Triangles <ul style="list-style-type: none">★ Theorems Proving similar triangles
Intro to Right Triangles
Right Triangles Pythagorean Theorem and its converse Applications of the theorem
Special Right Triangles Applications
Trigonometric Ratios



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FOURTH QUARTER
Angles of elevation and depression ★ Applications
Continuation on the applications of Right Triangles, Special Right Triangles and Trigonometric Ratios
Circles, segments, and congruence
Properties of Tangents Arcs, chords, and central angles
Tangents, secants, and angles The Power Theorems
Wrapping Up