

Curriculum

Class: Grade 8IP

Cycle: 3

Subject: Math

Textbook: Holt McDougal

Learning domains/ units	objectives	Learning outcomes/ competencies
Algebra	Principles of algebra	-Evaluate algebraic expressions -Write algebraic expressions -Recognize properties of a number -Understand the notion of absolute value -Add, subtract, multiply and divide integers
	Equations & inequalities	-Solve inequalities -Solve Multi-step inequalities
	Rational numbers	-Add & subtract rational numbers -Multiply & divide rational numbers -Solve equations with rational numbers
	Graphs & functions	- Recognize ordered pairs -Graph a function on a coordinate plane
	Exponents & roots	- Explore properties of exponents -Explore scientific notations -Solve square root of a number -Simplify square root of a number -Apply Pythagorean theory and its converse
	Ratios	Solve for ratios, rates & unit rates -Explore similar figures -Solve proportions
	Percent	-Find the percent of a number -Find a number when the percent is unknown -Find percent increase & decrease
	Polynomials	-Simplify polynomials -Add & subtract polynomials - Multiply & divide polynomials by monomials -Multiply binomials
	Algebraic expressions	-Expand algebraic expressions -Factorize algebraic expressions -Find a common factor
Geometry	Lines with transversals	-Identify parallel, perpendicular, skew & transversal lines -Identify corresponding, alternate interior, alternate exterior & same-side interior angles -Define lines & angles -Define angles formed by parallel & transversal lines

		<ul style="list-style-type: none"> -Prove parallel lines -Prove perpendicular lines
	Triangle Congruence	<ul style="list-style-type: none"> - Classify triangles -Find the relationship of angles in a triangle -Prove congruent triangles by SSS, SAS, ASA, AAS, & HL -Prove CPCTC
	Properties & attributes of triangles	<ul style="list-style-type: none"> - Define and prove perpendicular bisector & angle bisector -Define and prove bisectors of triangles -Define medians & altitudes of triangles -Introduce the theory of mid-segment theorem
	Polygons & quadrilaterals	<ul style="list-style-type: none"> -Define properties of polygons -Define properties of parallelogram -Define properties of special parallelograms