Unit 1 - Exploring Polynomial Expressions through Geometry

9 Days of Instruction

These standards expand in all Units of Geometry to reinforce real-world phenomena.

Unit 1	*Geometry: Concepts and Connections* Exploring Polynomial Expressions through Geometry	Considerations or scaffolds for Support
Day 1	**Standard(s)**: **G.PAR.2.1; G.MP; G.MM.1.1; G.MM.1.4** Interpret polynomial expressions of varying degrees that represent a quantity in terms of its given geometric framework. **Topic: Classify and Write Polynomials** **LT:** I can classify polynomial expressions. **SC:** o I can identify the highest degree. o I can identify the number of terms. o I can write the expression in standard form. o I can identify the leading coefficient, coefficients, and constants.	Scaffolding throughout the lesson and applications will be provided for rigor. Students will work in pairs for turn and talk. Graphic organizers Desmos, IXL, Delta Math, Pear Assessment

Day 2-4	**Standard(s): G.PAR.2.2; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4** Perform operations with polynomials and prove that polynomials form a system analogous to the integers in that they are closed under these operations. **Operations on Polynomials** **LT:** I can perform operations with polynomials. **SC:** o I will be able to discover the sum, and difference of polynomial expressions.	

Day 5 **Quiz Day**	**Quiz** **Standard(s): G.PAR.2.2; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4** Perform operations with polynomials and prove that polynomials form a system analogous to the integers in that they are closed under these operations. **Quiz Day**	
Day 6	**Standard(s): G.PAR.2.2; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4** Perform operations with polynomials and prove that polynomials form a system analogous to the integers in that they are closed under these operations. **Real World Applications of Polynomial Operations**	
Day 7	**Standard(s): G.PAR.2.2; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4** Perform operations with polynomials and prove that polynomials form a system analogous to the integers in that they are closed under these operations.	

	Real World Applications of Polynomial Operations **LT:** I can perform operations with polynomials using Perimeter and Area. **SC:** o I will be able to discover the sum, difference, or product of two or more polynomials as a polynomial. o I can perform operations with binomials, trinomials, and other polynomials. o I will be able to look at geometric shapes and express the perimeter and area with polynomial expressions.	
Day 8	Review for Test	
Day 9	Unit 1 Test	