Unit 1 - Exploring Polynomial Expressions through Geometry

10 Days of Block 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	High Engagement Activity	
Day 2	**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. Graphic organizers

Day 3	**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 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. **LT:** I can perform operations with polynomials. **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.	
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** **LT:** I can perform operations with polynomials. **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.	
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 **LT:** I can interpret Polynomial Expressions **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 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	**Standard(s): G.PAR.2.2** Perform operations with polynomials and prove that polynomials form a system analogous to the integers in that they are closed under these operations. **LT:** I am learning to perform operations with polynomials. **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.	
Day 9	Review for Test	
Day 10	Unit 1 Test	