

## MPM 1DI Unit 2 Polynomials

### Learning Goal

This unit we will use variables to represent unknowns and use algebraic expressions to communicate mathematical ideas.

### **This unit I will...**

- I can model polynomial expressions diagrams, numbers, words.
- I can substitute into and evaluate algebraic expressions involving exponents.
- I can use the exponent rules for multiplying and dividing monomials involving one and two variables with positive exponents.
- I can use the exponent rule for the power of a power to simplify expressions involving one and two variables with positive exponents.
- I can demonstrate and explain why the multiplication, division and power rules for exponents work.
- I understand and can identify mathematical language as it relates to algebra and polynomials
- I can add and subtract polynomials with up to two variables.
- I can use the distributive property to multiply a polynomial by a monomial involving the same variable.
- I can expand and simplify polynomial expressions involving one variable.
- I can apply my knowledge of polynomials to solve multi-step problems and explain thinking.

Day	Lesson	Assign. / Homework	Done √
1	3.3 Product and Quotient law for exponents	Page 126-127 #1, 2abc(only evaluate b,c), 3, 4 (only evaluate b,c,d), Worksheets: "Why are Babies Like Hinges?" For Extra Practice: "Why was the Engineer..."	
2	3.3 Exponent Laws part 2 – Power of a Power, power of a product	Page 127-129 #6-10, 19,20,NOTE: 6c error in text – answer should be 0.000 000 01 also for #20 answer, $\sqrt{2}X$ is a typo that should read as $\sqrt{X}$ Worksheet: "What Happens to a Dog...?" For more practice, Worksheet "...Bar of Soap...?"	
3	<b>Exponents Quiz</b> 3.4 What is a polynomial	Page 134-135 # 1-6	
4	Substitution + Application Problems	Page 115 #7 Page 135-137 #7-9, 10ab, 11-13, 15, 17	
5	3.5 Simplifying Polynomials part 1– collecting like terms	Page 151-152 #1-3,5-9 Challenge: page 153 #17	
6	3.6 Simplifying polynomials part 2 – Adding/subtracting polynomials	Page 157-158 #1-5, 6a	
7	<b>Polynomials Quiz</b> 3.7 Distributive Property	Page 166-168 #1,3ace,5ace,6af,7ce, 8,9,15aceh, 16ac	
8	<b>Review</b>	Page 174-175 #7- 20 Pg 176 # 1 – 14	
9	<b>Test</b>		