

# Math 9 LG's 4&5

## INTRODUCTION TO POLYNOMIALS



### INTRODUCTION:

Mathematics is a language that is understood throughout the World. For a cool example, check out page 174.



### LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:

- 1) demonstrate an understanding of polynomials.
- 2) model, record and explain addition and subtraction of polynomials.



### EVALUATION:

You are ready to progress to the next learning guide when you can demonstrate your understanding of the above expectations. Please refer to your Mathematics 9 Marks Record Sheet to determine the assessment.



### RESOURCES NEEDED:



Math Links 9 Text

Algebra Tiles Kit

### LEARNING ACTIVITIES:



#### **Expectation #1: Demonstrate an understanding of polynomials.**



1. [Watch and take notes on instructional video on Polynomial Vocabulary](#)



2. In the Math Links 9 text, work through Example 1 on page 176. Now complete #5, 6, 7 on page 179.
3. In the Math Links 9 text, work through Example 2 on pages 176-177. Now complete #8-10 on page 179.



4. In your math journal, complete the journal entry for LG's 4&5 Expectation 1.



5. [Watch and take notes on instructional video on Understanding Polynomials](#)



6. In the Math Links 9 text, work through Example 3 on page 177. Now complete #11-14. You can use your algebra tile kit from the science kiosk to help you. You will need to draw your answers in your notebook, using the tiles as a model.



7. In your math journal, complete the journal entry for LG's 4&5 Expectation 2 Parts A & B



8. In the Math Links 9 text, complete #16, 17, 19, 21, 23, 24, 26 on pages 180-181.



**Expectation #2: Model, record and explain addition and subtraction of polynomials.**



1. [Watch and take notes on instructional video on Combining Like Terms](#)



2. In the Math Links 9 text, work through Example 2 on page 184. Now complete #8, 9 on page 187.



3. In your math journal, complete the journal entry for LG's 4&5 Expectation 2 – Part C



4. In the Math Links 9 text, work through Example 3 on pages 185-186. You may want to use algebra tiles (sign them out from the science kiosk) to help you complete #10, 11 on page 187.

5. In the Math Links 9 text, complete # 16, 19, 20, 21, and 22 on page 188-189.



6. [Watch and take notes on instructional video on Adding & Subtracting Polynomials](#)

7. In the Math Links 9 text, work through Example 1 on page 191. You may want to use algebra tiles (sign them out from the science kiosk) to help you complete #5, 6, 7 on page 196.

8. In the Math Links 9 text, work through Examples 2&3 on pages 192-194.



9. In your math journal, complete the journal entry for LG's 4&5 Expectation 2 – Parts D & E



10. In the Math Links 9 text, carefully read over the Key Ideas on page 195. Now complete #8, 10 - 15 on pages 196-197.

## REVIEW AND CHALLENGE

\*\*\*Please note: You may want to use algebra tiles (sign them out from the science kiosk) to help you complete the following review questions:



1. In the Math Links 9 text, complete Chapter 5 Review pages 200-201 #1-15, 17-19, 21-24,26,28.



2. In the Math Links 9 text, complete Chapter 5 Practice Test pages 202-203 #1-9, 11-13.