

# Math 9A 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 the addition 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 9A 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 your math journal, complete the journal entry for LG's 4&5 Expectation 1.

 3. In the Math Links 9 text, work through Example 1 on page 176. Now complete #7 on page 179.

4. In the Math Links 9 text, work through Example 2 on pages 176-177. Now complete #9 on page 179.

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



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



7. In the Math Links 9 text, work through Example 3 on page 177. Now complete #12 and 14 on Pg. 179-180.

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.

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



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



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



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



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

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 #11 on page 187.

5. In the Math Links 9 text, complete # 16, 19 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, 7 on page 196.



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



9. In the Math Links 9 text, carefully read over the Key Ideas on page 195. Now complete #8, 11, 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 #1-6, 7, 11, 15, 17, 19, 24.