

## Lab Framework

**Text:** *Cord Unit 23*

**Unit number and title:** *Working with polynomials and math tiles*

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### Lab Title

## Working with polynomials and math

### LAB PLAN

**TEACHER:** Teacher Prep/ Lesson Plan

- **Lab Objective**

*Students will understand factoring polynomials using the math tiles*

- **Statement of pre-requisite skills needed** (i.e., vocabulary, measurement techniques, formulas, etc.)

*Algebraic*

- **Vocabulary**

*Polynomial, FOIL, Term, Factor*

- **Materials List**

*Tiles, pencil, paper*

- **State Standards addressed**

Math: A1.2.E and A1.2.F

Reading: **Reading**1.2.2

Writing: 1.1.1

- **Leadership Skills**

*Teamwork and “3 before me”*

- **SCAN Skills/Workplace Skills**

*Various*

- **Set-up information**

*Tiles in baggie, document camera, paper, pen*

- **Lab organization**(-Grouping/leadership opportunities/cooperative learning expectations; -**Timeline required**)

*Groups of two*

- **Teacher Assessment of student learning** (scoring guide, rubric)

*Performance Assessment*

- **Summary of learning** (to be finished after student completes lab)

-discuss real world application of learning from lab

-opportunity for students to share/present learning

*How do you feel about factoring?*

- **Optional activities**

*legos*

- **Career Applications**

*Factoring is not often used in the workplace, however, it can be used to make math expressions simpler and easier to handle.*

**LAB TITLE: Factoring**

**STUDENT INSTRUCTIONS:**

- **Statement of problem addressed by lab**  
Try to find the product of the polynomial by factoring
- **Grouping instructions and roles**  
Groups of 2
- **Procedures** – steps to follow/instructions
  1. Take tiles out of bag
  2. Create rectangle using tiles
  3. Write a product
- **Outcome instructions**  
Students have an understanding of factoring
- **Assessment instructions** (peer-teacher)  
Peer and performance

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## Lab Data Collection

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Unit: \_\_\_\_\_

Lab Title:

Criteria: Write the problem/objective in statement form

Data Collection: Record the collected/given data

Calculations: Complete the given calculations to solve for an answer(s)

Summary Statement:

Other Assessment(s)

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