

Polynomials and Factoring

Curriculum Expectations

By the end of this course, students will:

- expand and simplify second-degree polynomial expressions involving one variable that consist of the product of two binomials or the square of a binomial
- factor binomials and trinomials involving one variable up to degree two, by determining a common factor
- factor simple trinomials of the form $y = x^2 + bx + c$
- factor a difference of squares of the form $y = x^2 - c^2$

Schedule of Topics

Day	Topic	Homework	Questions?
1	Distributive Property and Common Factoring		
2	Distributive Property for Binomials		
3,4	Factoring Simple Trinomials		
5	Factoring Differences of Squares		
6	Factoring Using Previous Techniques		
7	Factoring Involving Two Steps		
8	Review: Polynomials and Factoring		

Assessment and Evaluation

Quiz/Test/Task	Date	K	A	T	C

Skills Checklist

At the end of this strand, I am able to:

- | | | | |
|---|---------------------------------|--------------------------------|---------------------------------|
| • use the distributive property for a monomial and polynomial | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • use the distributive property for two binomials | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • common factor polynomials | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • factor simple trinomials | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • factor differences of squares | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • factor polynomials using two steps | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • recognize when a polynomial cannot be factored | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |