

## Topics in Algebra B Lesson plans 2023-24 Term H2

The course examines a specific topic in algebra, such as linear equations or rational numbers, rather than providing an overview of algebra concepts.

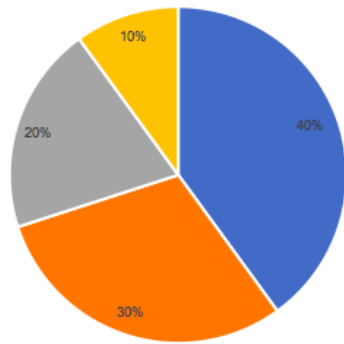
Homework is to be turned in on the date due. Quizzes and tests are to be done in class. All work must be completed with a passing grade (60% or better) to receive credit. If you are absent, you are still responsible for completing the work. Any time you owe after your 3rd absence needs to be made up with Mrs. Hoglo, Mr. Leake, Mrs. Haugen, or Mrs. Schuster. Please stay current.

Power Standards	
Algebraic Operations Linear Equations and Functions Linear Inequalities Systems of Linear Equations Nonlinear Equations and Functions Properties of Exponents	Perimeter, Area, and Geometric Formulas Analytical Geometry (Coordinate plane)- Transformations, Slope, Distance, Midpoint Triangle Properties (Lengths, Angles, Right Triangle Trigonometry, Pythagorean Theorem) Angle Properties (90°, 180°, 360°, vertical, complementary, supplementary) Parallel Lines and Angles Segment Length Units of Measure

October 16 - November 30, 2023

Grading
Tests - 40% Quizzes - 30% Homework - 20% Participation - 10%

### Topics in Algebra



■ Tests - 40%      ■ Quizzes - 30%  
■ Homework - 20%      ■ Participation - 10%

<b>Week 1</b>	<b>Monday Oct. 16</b> Hoglo P/T Conf. 4-8 @ ALC	<b>Tuesday</b> Students out @ noon HogloP/T Conf. 1-3:45 @ ALC, 4-8 @ LHS	<b>Wednesday</b> Hoglo P/T Conf. 8-1 @ LHS No school	<b>Thursday</b> No school
HW	D1	D2	No school	No school
Title	Graphing points on an x-y graph	Comparing fractions, decimals, and integers		
Videos				
Quiz				
Test				

<b>Week 2</b>	<b>Monday Oct. 23</b>	<b>Tuesday</b>	<b>Wednesday CCR</b>	<b>Thursday</b>
HW	D3	D4	D5	D6
Title	Comparing fractions to decimals and comparing coins	Graph linear inequalities	Graph linear inequalities	Graph linear inequalities
Videos		<a href="#">Learn how to graph a linear inequality</a> 5:06	<a href="#">Graphing Inequalities: Slope Intercept Form</a> 7:59	
Quiz		Quiz 1		
Test				

<b>Week 3</b>	<b>Monday Oct. 30</b>	<b>Tuesday Happy Halloween :) Sub.</b>	<b>Wednesday CCR Sub.</b>	<b>Thursday</b>
HW	D7	D8	D9	D10
Title	Solve a system of equations by graphing	Solve a system of equations by graphing	Solve a system of equations by substitution	Solve a system of equations by substitution
Videos	<a href="#">Solving a Linear System of Equations by Graphing</a> 5:19	<a href="#">Learn how to solve a system of equations by graphing</a> 5:05	<a href="#">Learn to solve a system of equations using substitution</a> 5:16	<a href="#">Solving Linear Systems of Equations Using Substitution</a> 8:11
Quiz			Quiz 2 ->	Quiz 2 from yesterday
Test	Test 1			

<b>Week 4</b>	<b>Monday Nov. 6</b> No school, teacher inservice	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>
HW	No school	D11	D12	Make-up time and work due by 3:45
Title		Solve a system of equations by elimination	Solve a system of equations by elimination	Make-up time/ make-up work
Videos		<a href="#">How to Solve Systems Elimination Method</a> 8:05	<a href="#">Using Elimination to Solve Systems</a> 9:21	
Quiz		Quiz 2 from last Wednesday		
Test				

<b>Week 5</b>	<b>Monday Nov. 13</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>
HW	D13	D14	D15	D16
Title	Solve a system of equations by any method	Polynomials - Number of terms/degree	Polynomials - Adding and subtracting	Polynomials - Multiplying
Videos		<a href="#">Algebra Basics: What Are Polynomials? - Math Antics</a> 11:08 <a href="#">Classify Polynomials by Degree &amp; Number of Terms</a> 5:45	<a href="#">Adding and Subtracting Polynomials 3-9</a> 8:48	<a href="#">Polynomial Multiplication Box Method</a> 4:39 <a href="#">Multiplying binomials and polynomials   Algebra Basics   Khan Academy</a> 9:49
Quiz	Quiz 3			Quiz 4
Test		Test 2		

<b>Week 6</b>	<b>Monday Nov. 20 Sub.</b>	<b>Tuesday ALC Thanksgiving 🍂</b>	<b>Wednesday</b>	<b>Thursday No school Happy Thanksgiving!</b>
HW	D17	D18	D19	No school
Title	Polynomials - Multiplying Binomials	Polynomials - Multiplying special polynomials	Polynomials - Multiplying	
Videos	<a href="#">Multiply Rectangles with Generic Rectangles</a> 5:34	<a href="#">Introduction to special products of binomials   Algebra I   Khan Academy</a> 10:35 <a href="#">Special Products Multiplying Polynomials</a> 7:14	<a href="#">FOIL Method for Multiplying Binomials - Distributive Property</a> 1:24 <a href="#">FOIL Song (Count On Me)</a> 2:02	
Quiz				
Test				

<b>Week 7</b>	<b>Monday Nov. 27</b>	<b>Tuesday Sub.</b>	<b>Wednesday CCR</b>	<b>Thursday</b>
HW	D20	D21	D22	
Title	Polynomials - Multiplying	Diamond problems	Diamond problems with larger numbers	All makeup work and time due by 3:45. Everything must be 60% or better :)
Videos		<a href="#">Diamond Problems</a> 5:07		
Quiz			Quiz 5	
Test			Test 3	

<b>Week Extra</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>
HW	D23	D24	D25	D26
Title	Diamond problems with more factors	Diamond problems with negative integers	Factoring Diamond problem, generic rectangle, product = sum	Factoring Product, diamond problem, generic rectangle, sum
Videos				
Quiz				
Test				