

Algebra 1 B Math Lab Schedule

This high school level Algebra Lab is designed to support students in grades 9-12 that are taking an Algebra course at home. Students must attend at least 10 math labs per semester in order to earn 1 credit on their high school transcript for the course. Students that arrive later than 20 minutes after the lab has begun will not receive credit for attending the lab on that class day. Class times will be determined on a site-by-site basis.

Tuesday
East County

Wednesday
Central County

Thursday
South County

Week of	Semester 2	Lab Objectives
Jan 18	Lab 1	First Semester Review
Jan 25	Lab 2	First Semester Review
Feb 1	Lab 3 8-1 through 8-3	Solve systems of equations by graphing. Determine whether a system of equations has one solution, no solutions, or infinitely many solutions by graphing. Solve systems of equations by the substitution method. Organize data to solve problems. Solve systems of equations by using the substitution method. Organize data to solve problems.
Feb 8	Lab 4 8-4 through 8-5	Solve systems of equations by the elimination method using multiplication and division. Solve systems of inequalities by graphing.
Feb 15	Lab 5 9-1 through 9-4	Multiply monomials. Simplify expressions involving powers of monomials. Solve problems by looking for a pattern. Simplify expressions involving quotients of monomials. Simplify expressions containing negative exponents. Express numbers in scientific and standard notation. Find products and quotients of numbers expressed in scientific notation. Find the degree of a polynomial. Arrange the terms of a polynomial so that the powers of a variable are in ascending or descending order.
Feb 22	Lab 6 9-5 through 9-8	Add and subtract polynomials. Multiply a polynomial by a monomial. Simplify expressions involving polynomials. Use the FOIL method to multiply two binomials. Multiply any two polynomials by using the distributive property. Use patterns to find $(a+b)^2$, $(a-b)^2$, and $(a+b)(a-b)$.
Mar 1	Lab 7 10-1 through 10-3	Find the prime factorization of integers. Find the greatest common factors (GCF) for sets of monomials. Use the GFC and the distributive property to factor polynomials. Use grouping techniques to factor polynomials with four or more terms. Solve problems by using guess and check. Factor quadratic trinomials.
Mar 8	Lab 8 10-4 through 10-6	Identify and factor binomials that are the differences of squares. Identify and factor perfect square trinomials. Use the zero product property to solve equations.
Mar 15	Lab 9 11-1 through 11-3	Find the equation of the axis of symmetry and the coordinates of the vertex of a parabola. Graph quadratic functions. Use estimation to find roots of quadratic equations. Find roots of quadratic equations by graphing. Solve quadratic equations by using the quadratic formula.
Mar 22	Lab 10 11-4 through 11-5	Graph exponential functions. Determine if a set of data displays exponential behavior. Solve exponential equations. Solve problems involving growth and decay.

Mar 29	No Lab	Spring Break
Apr 5	No Lab	Spring Break
Apr 12	Lab 11 12-1 through 12-4	Simplify rational expressions. Identify values excluded from the domain of a rational expression. Multiply rational expressions. Divide rational expressions. Divide a polynomial by a binomial.
Apr 19	Lab 12 12-5 through 12-8	Add and subtract rational expressions with like denominators. Add and subtract rational expressions with unlike denominators. Solve problems by making an organized list of possibilities. Simplify mixed expressions and complex fractions. Solve rational equations.
Apr 26	Test Prep	Star test preparation
May 3	No Lab	STAR Testing
May 10	No Lab	STAR Testing
May 17	Lab 13 13-1 through 13-3	Use the Pythagorean Theorem to solve problems. Simplify square roots. Simplify radical expressions. Simplify radical expressions involving addition and subtraction.
May 24	Lab 14 13-4 through 13-6	Solve radical equations. Find the distance between two points in the coordinate plane. Solve problems by identifying subgoals. Solve quadratic equations by completing the square.
May 31	Grades Posted	Work is no longer accepted for credit because grades are in!