

Roger Bacon High School Summer Assignment

Mathematics - Assignment to be completed in the summer prior to freshmen year

Instructions: After logging in to your IXL account (<https://www.ixl.com/signin/rogerbahs>), please complete the IXL skills that correspond to the listed objectives for the class that you will be taking during the 2023-2024 school year. The easiest way to begin working on each skill is to click the skill # below which includes an embedded hyperlink that will send you directly to the questions on IXL. **BUT PLEASE REMEMBER, YOU MUST LOG INTO YOUR IXL ACCOUNT FIRST IN ORDER TO MAKE SURE THAT YOUR PROGRESS GETS RECORDED!!!**

Please note, if you are taking Algebra I, Part I, you must earn a smart score of 70 or higher to receive credit. CP Algebra I and CP Geometry students must earn a smart score of 85 or higher and Honors Algebra I and Honors Geometry students must earn a perfect 100 on each skill. If you have any trouble logging in or have any additional questions, please email Coach Neal at bneal@rogerbacon.org.

Algebra I AND Algebra I, Part I

Objective	IXL Skill
I can write a repeating decimal as a fraction.	SKILL 1
I can multiply numbers written in scientific notation.	SKILL 2
I can use the pythagorean theorem to find the missing leg or hypotenuse length in a triangle.	SKILL 3
I can estimate positive and negative square roots.	SKILL 4
I can identify rational and irrational numbers.	SKILL 5
I can solve equations.	SKILL 6
I can solve proportions.	SKILL 7
I can find outliers in scatter plots.	SKILL 8
I can graph a line from an equation in slope-intercept form.	SKILL 9
I can solve equations using square roots.	SKILL 10
I can compare linear functions: graphs and equations.	SKILL 11
I can find the distance between two points.	SKILL 12
I can solve a system of equations by graphing: word problems.	SKILL 13
I can make predictions with scatter plots.	SKILL 14
I can represent numbers in prime factorization.	SKILL 15
I can find the greatest common factor.	SKILL 16
I can add and subtract integers.	SKILL 17
I can multiply and divide integers.	SKILL 18
I can evaluate numerical expressions involving integers.	SKILL 19
I can evaluate numerical expressions involving rational numbers.	SKILL 20

Geometry

Objective	IXL Skill
I can describe a sequence of transformations.	SKILL 1
I can write congruence statements using corresponding parts.	SKILL 2
I can find the scale factor of dilations.	SKILL 3
I can find the area and circumferences of circles.	SKILL 4
I can factor polynomials.	SKILL 5
I can solve quadratic equations using square roots.	SKILL 6
I can solve a quadratic equation using the Quadratic Formula.	SKILL 7
I can simplify radical expressions.	SKILL 8
I can use the Pythagorean Theorem to find missing side lengths of a right triangle.	SKILL 9
I can find the distance between two points.	SKILL 10
I can solve a right triangle.	SKILL 11
I can solve linear equations.	SKILL 12
I can graph solutions to advanced linear inequalities.	SKILL 13
I can calculate experimental and theoretical probability.	SKILL 14
I can write linear functions from word problems.	SKILL 15
I can write an equation from a graph in point-slope form.	SKILL 16
I can solve a system of equations by graphing.	SKILL 17
I can identify equivalent expressions involving exponents.	SKILL 18
I can add and subtract polynomials.	SKILL 19
I can multiply two binomials.	SKILL 20