



# Advanced Topics: Summer Home Learning

1. Go to the IXL app or the website [www.IXL.com/signin/pacespartans](http://www.IXL.com/signin/pacespartans)
  2. Enter your username and password.
    - **Each student's USERNAME** is their @pacespartans email, WITHOUT ".com" at the end. For example, **jdoe15123@pacespartans.com** would just use **jdoe15123@pacespartans** to login.
    - **Each student's PASSWORD** is their date of birth, just the month and day, with no dashes. For example, a student born on **February 4** would have the password **0204**
  3. Click on **MATH** at the top of the page and navigate to **ALGEBRA 1** or **ALGEBRA 2**.
  4. Complete each skill listed below with a SmartScore of **80 or above**.
- 

The following sections are **MANDATORY** and will count as your first quiz grade:

## ALGEBRA 1

### Operations

- B.4 – Add and Subtract Rational Numbers
- B.5 – Multiply and Divide Rational Numbers
- B.6 – Evaluate Numerical Expressions involving Rational Numbers
- B.7 – Evaluate Variable Expressions involving Rational Numbers

## ALGEBRA 2

### Equations

- B.1 – Solve Linear Equations
- B.2 – Solve Linear Equations: Word Problems

### Factoring

- I.1 – Factor Out a Monomial
- I.3 – Factor Quadratics
- I.5 – Factor by Grouping
- I.6 – Factor Sums and Differences of Cubes
- I.7 – Factor Polynomials

### Quadratic Functions

- J.5 – Solve a Quadratic Equations Using the Zero Product Property
- J.6 – Solve a Quadratic Equation by Factoring

### Polynomials

- K.1 – Polynomial Vocabulary
- K.2 – Add and Subtract Polynomials
- K.3 – Multiply Polynomials