

Foundations of Algebra
Sprayberry High School
Spring 2020
IXL.com

Hello parents and students. For the first two months of Foundations of Algebra, we are going to allow the students to work on **IXL Learning** in attempts to build the student's Mathematical foundation in preparation for Algebra 1. All *Teacher Recommended* assignments must be completed for a grade. Please ensure you are working, and most importantly learning, so that you retain the skills needed for your next level on Mathematics in high school.

The topics listed below will count as your Formative Assessment grade. Each topic must be worked on until a satisfactory grade is achieved. This grade can range from 80% to 100%. Be sure you're working diligently (and honestly) because a Summative Assessment will be given to each student to determine his or her level of mastery of the following topics. After these topics are covered and assessed, you will receive more teacher recommended assignments to complete. We return to the classroom in March and will resume normal operation until the end of school in May.

Teacher Recommended Assignments (January)

M. Integers

- **3** Graph integers on horizontal and vertical number lines
- **6** Compare integers

N. Operations with Integers

- **5** Add and subtract integers; find the sign
- **8** Multiply integers: find the sign
- **10** Divide integers: find the sign

O. Mixed Operations

- **2** Add, subtract, multiply, or divide two whole numbers: word problems
- **5** Add, subtract, multiply, or divide two decimals: word problems

X. Coordinate Plane

- **1** Objects on a coordinate plane
- **2** Graph points on a coordinate plane
- **3** Quadrants
- **4** Coordinate planes as maps

Y. Expressions and Properties

- **1** Write variable expressions: one operation
- **2** Write variable expressions: two operations
- **3** Write variable expressions: word problems
- **4** Evaluate variable expressions with whole numbers
- **5** Evaluate multi-variable expressions
- **7** Identify terms and coefficients

Z. One-Variable Equations

- **1** Does x satisfy an equation?
- **2** Which x satisfies an equation?
- **6** Solve one-step equations with whole numbers
- **9** Solve two-step equations
- **10** Solve equations involving like terms
- **11** Solving equations involving integers