

## Incoming Honors Pre Calculus Summer Work “N” ixl.com or 12<sup>th</sup> grade

### Variable expressions

Domain and range  
Identify functions  
Evaluate functions

### Equations

Function transformation rules  
Translations of functions  
Reflections of functions  
Dilations of functions  
Transformations of functions

### Functions

Domain and range  
Identify functions  
Evaluate functions

### Systems of equations

Is  $(x, y)$  a solution to the system of equations?

### Systems of inequalities

Is  $(x, y)$  a solution to the system of inequalities?

### Factoring

Factor out a monomial  
Factor quadratics using algebra tiles

### Polynomials

Polynomial vocabulary

### Circles

Find the center of a circle  
Find the radius or diameter of a circle

### Trigonometry

Pythagorean Theorem and its converse  
Special right triangles  
Trigonometric ratios: sin, cos, and tan

### Probability

Introduction to probability

