

# **The Shapes of Algebra Overview**

## **Investigation One - Equations for Circles and Polygons**

G.SR.08.03a

Understand the definition of a circle

## **Investigation Two - Linear Equations and Inequalities**

A.FO.08.11a

Solve simultaneous linear equations in two variables by graphing

A.FO.08.13a

Set up and solve applied problems involving simultaneous linear equations

A.FO.08.13b

Set up and solve applied problems involving simultaneous linear inequalities

A.FO.08.12a

Solve linear inequalities in one variable and graph the solution set

## **Investigation Three - Equations with Two or More Variables**

A.FO.08.11a

Solve simultaneous linear equations in two variables by graphing

## **Investigation Four - Solving Systems of Linear Equations Symbolically**

A.FO.08.11b

Solve simultaneous linear equations in two variables by substitution

A.FO.08.11d

Solve simultaneous linear equations with no solutions and infinitely many solutions

A.FO.08.11c

Solve simultaneous linear equations in two variables by linear combination

## **Investigation Five - Linear Inequalities**

A.FO.08.12b

Solve linear inequalities in two variables and graph the solution sets

A.FO.08.13b

Set up and solve applied problems involving simultaneous linear inequalities