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