

Geometry Essential Standards High School

- 1) Experiment with transformations in the plane.
- 2) Understand congruence in terms of rigid motions.
- 3) Construct arguments about geometric theorems using rigid transformations and/or logic.
- 4) Make geometric constructions.
- 5) Understand similarity in terms of similarity transformations.
- 6) Construct arguments about theorems involving similarity.
- 7) Define trigonometric ratios and solve problems involving right triangles.
- 8) Apply trigonometry to general triangles
- 9) Understand and apply theorems about circles.
- 10) Find arc lengths and areas of sectors of circles.
- 11) Translate between the geometric description and the equation for a conic section.
- 12) Use coordinates to prove simple geometric theorems algebraically.
- 13) Explain volume formulas and use them to solve problems.
- 14) Apply geometric concepts in modeling situations.