

Geometry Scope & Sequence



ORANGE PUBLIC SCHOOLS 2015 - 2016
OFFICE OF CURRICULUM AND INSTRUCTION
OFFICE OF MATHEMATICS

Scope & Sequence

Geometry		
#	Unit name	Approximate # of instructional days
1	<u>Geometric transformations</u> * Using inductive reasoning and conjectures * Rigid transformation * Transformations and coordinate geometry	12
2	<u>Deductive reasoning with angles and lines</u> * Deductive reasoning, logic, and proof * Conditional statement and converses * Lines and transversals	8
3	<u>Triangles</u> * Properties of a triangle * Special lines and points in triangles * Congruent triangle postulates * Using congruent triangles * Compass and straightedge construction	14
4	<u>Similarity transformations</u> * Dilations and similarity * Applications of similarity	6
5	<u>Right triangle relationships and Trigonometry</u> * Pythagorean Theorem and the distance formula * Right triangle and trig relationship	9
6	<u>Polygons</u> * Polygons and special quadrilaterals	9
7	<u>Circles (Part 1)</u> * Characteristics of a circle * Equations of a circle * Relationships between radii, chords, arcs, and angles	9
8	<u>Circles (Part 2)</u> * Properties of chords, tangents, and secants * Application of circumference and area formulas * Arc lengths and radian measures	9
9	<u>3D Shapes</u> * Relating 2-D and 3-D objects * Prisms and Cylinders * Pyramids and cones	9
	Total	85