Geometry Syllabus, 2nd Semester (correlation to Common Core, Geometry)

Geometry)**Unit 10: Areas of regular polygons**

Lesson 01: Areas of regular (equilateral) triangles **G-GPe-7**

Lesson 02: Areas of regular quadrilaterals (squares) **G-GPe-7**

Lesson 03: Areas of regular hexagons **G-GPe-7**

Lesson 04: General area of regular polygons **G-GPe-7**

Lesson 05: Effects of dimension and area changes **G-Gmd-2**

Cumulative review
Unit 11 review
Unit 11 test

Unit 11: Three dimensional objects

Lesson 01: Three dimensional drawings and views **G-Gmd-1,-2,-3,-4**

Lesson 02: Prisms and nets **G-Gmd-1,-2,-3,-4**

Lesson 03: Areas and volumes of prisms **G-Gmd-1,-2,-3**

Lesson 04: More areas and volumes of prisms **G-Gmd-1,-2,-3**

Lesson 05: Effects of dimension, area, and volume changes **G-Gmd—2,3**
          Units conversions

Cumulative review **G-Gmd-3**
Unit 12 review
Unit 12 test

Unit 12: Pyramids

Lesson 01: Pyramid fundamentals and associated nets **G-Gmd-1,-2,-3; G-GPe-7**

Lesson 02: Surface areas and volumes of pyramids **G-Gmd-1,-2,-3**

Lesson 03: More practice with areas and volumes of pyramids **G-Gmd-1,-2,-3**

Lesson 04: Effects of dimension, area, and volume changes **G-Gmd-1,-2,-3**

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Cumulative review **G-GP-e-4, G-Gmd-3**

Unit 13 review

Unit 13 test

Unit 13: Circles

Lesson 01: Circle fundamental **G-Co-1, G-GMD-1**

Lesson 02: Shaded area involving circles **G-Co-1, G-GMD-1**

Lesson 03: Circle equations and inequalities **G-GP-e-4**

Lesson 04: Tangents **G-C-2,-4**

Cumulative review

Unit 14 review

Unit 14 test

Unit 14: Cylinders, cones, and spheres

Lesson 01: Cylinder fundamentals (area and volume) **G-Gmd1,2,3; G-MG-3**

Lesson 02: Cone fundamentals (area and volume) **G-Gmd1,3**

Lesson 03: Sphere fundamentals (area and volume) **G-Gmd1,3; G-Gmd4**
   Rotation of two-dimensional objects; cross sections

Cumulative review

Unit 15 review

Unit 15 test

Unit 15: Arcs, chords, central angles
Sector and segment area

Lesson 1: Arcs, semicircles, and central angles **G-Co-1, -2**

Lesson 2: Arcs and chords **G-Co-1, -2; G-C5**

Lesson 3: Arc length, sector area, and segment areas **G-Co-1, -2 ; G-C5**

Lesson 6: Area probability problems **G-Co-1, -2**
   Construction: Circumscribing a triangle with a circle G-Co-12

Cumulative review

Unit 16 review

Unit 16 test

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Unit 16: Inscribed angles and angles formed by secants & tangents

Lesson 1: Inscribed angle **G-C-1,-2,-3,-4,-5**

Lesson 2: Angles formed by secants and tangents **G-C-1,-2,-3,-4,-5**

Lesson 3: More practice with inscribed angles and angles formed by
secants and tangents

Lesson 4: Special line segments associated with a circle **G-C-4**

Lesson 5: More practice with special segments **G-C-1,-2,-3,-4,-5**

Lesson 6: Construction: Inscribing circles inside triangles and regular polygons

G-C-3

Cumulative review
Unit 17 review
Unit 17 test

Unit 17: Transformations; rigid motions
           Slope relationships between lines

Lesson 1: Translations **G-Co-1,2,3,5,6**

Lesson 2: Reflections **G-Co-3,5,6**

Lesson 3: Rotations **G-Co-3,5,6**

Lesson 4: Patterns **G-Co-12**

Lesson 5: Parallel and perpendicular lines **G-GPe-5**

Cumulative review
Unit 17 review
Unit 17 test

Unit 18: Logic and Proofs (SSS, SAS, & ASA)

Lesson 1: Conditional statements **G-C0-9,-10,-11**

Lesson 2: Introduction to two column proofs **G-C0-9,-10,-11**
           Algebraic proofs

Lesson 3: Corresponding parts of congruent triangles **G-Co-6,7,8**

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Lesson 4: Using SSS, SAS, & ASA with congruent triangles **G-Co-6,7,8**

Lesson 5: Using SSS, SAS, & ASA to prove triangles congruent **G-Co-6,7,8**

Unit 18 review
Unit 18 test

Semester summary
Semester review
Semester test