**Geometry Pacing Guide 2016-2017 Teacher Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_**

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| **This Pacing Guide is a suggestion for you to use “as a guide”. Each class should progress at its’ own pace. Although there are a few quizzes listed in the pacing guide, teachers SHOULD quiz students as needed to check for understanding.** |
| **1st 9-weeks - *There are 47 teaching days.*** | **8/15/16 – 10/20/16** | [**http://web.algebranation.com/**](http://web.algebranation.com/) **- Geometry****Look at the study guides and videos – you may want to use some of them as your lesson or as supplements to your lesson.** |
| **Labor Day Holiday** | **9/5/16** |
| **Fall Holiday** | **10/12/16** |
| **Baseline Progress Monitoring Test –** **The Baseline should ONLY be 1 day.** | **1 day** | **The Baseline will be paper and pencil, but the answer bubble sheets will be scanned into Data Director for scoring.** |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 1 – Tools of Geometry**  |  |  |  |  |
| * 1. **Points, Lines, and Planes**

**EQ – How can you explain the meanings of the Geometric basic terms and postulates of Geometry?** | **G-CO.1.1** **MP 1, MP 3, MP 4, MP 6** | **1** | * **Understand basic terms and postulates of Geometry**
 | **Section 1 – Video 1 (geometric terms)****Section 4 – Video 1 (Triangles)****Section 3 – Video 1 (Polygons)** |
| **1-3 Measuring Segments****EQ – How can you find and compare lengths of segments?** | **G-CO.1.1****G-GPE.2.6** **MP 2, MP 3, MP 4, MP 6** | **1** | * **Find and compare lengths of segments**
 |  |
| **1-7 Midpoint and Distance in the Coordinate Plane****Quiz?****EQ – How do you find the midpoint of a segment?****How do you find the distance between two points in the coordinate plane?** | **G-GPE.2.4****G-GPE.2.7****G-GPE.2.6 MP 1, MP 3, MP 4** | **2****(including quiz)** | * **find the midpoint of a segment**
* **find the distance between two points in the coordinate plane**
 | **Section 1 – Video 2 and Section 1 - Video 3** |
| **1-4 Measuring Angles****EQ – How do you find and compare the measures of angles?** | **G-CO.1.1** **MP 1, MP 3, MP 6** | **1** | * **find and compare the measures of angles**
 | **Section 2 – Video 1****Section 2 – Video 2** |
| **1-5 Exploring Angle Pairs****EQ – How can you identify special angle pairs and use their relationships to find angle measures?** | **G-CO.1.1** **MP 1, MP 3,** **MP 4, MP 6** | **1** | * **identify special angle pairs and use their relationships to find angle measures**
 | **Section 2 – Video 3****Section 2 – Video 4** |
| **Chapter 1 Review**  |  | **1** |  |  |
| **Chapter 1 Test** |  | **1** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 2 – Reasoning and Proof** **Remember: Do NOT teach Logic at all!!!!** |  |  |  |  |
| **2-5 Reasoning in Algebra and Geometry****EQ – How do you connect reasoning in algebra and geometry?** | **G-CO.3.9****G-CO.3.10****G-CO.3.11** **MP 1, MP 3** | **1** | * **connect reasoning in algebra and geometry**
 |  |
| **2-6 Proving Angles Congruent****EQ – How do you prove and apply theorems about angles?** | **G-CO.3.9** **MP 1, MP 3,** **MP 4, MP 6** | **1** | * **prove and apply theorems about angles**
 | **Section 4 – Video 2** |
| **Proof Day for 2-5 and 2-6** |  | **1** |  | **Section 5 – Video 2 (Right Triangles)** |
| **Chapter 2 Test on 2-5 and 2-6** |  | **1** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 3 – Parallel and Perpendicular Lines** |  |  |  |  |
| **3-1 Lines and Angles** **and****3-2 Properties of Parallel Lines****EQ – How do you identify angles formed by two lines and a transversal?****How do you prove theorems about parallel lines?****How do you use properties of parallel lines to find angle measures?**  | **G-CO.3.9****G-CO.1.1****G-CO.3.9** **MP 1, MP 3,** **MP 4, MP 6** | **1** | * **prove theorems about parallel lines**
* **use properties of parallel lines to find angle measures**
* **identify relationships between figures in space**
* **identify angles formed by two lines and a transversal**
 | **Section 2 – Video 5****Section 2 – Video 6****Section 1 – Video 5** |
| **3-3 Proving Lines Parallel****EQ – How do you determine whether two lines are parallel?** | **G-CO.3.9** **MP 1, MP 3,** **MP 7** | **1** | * **determine whether two lines are parallel**
 |  |
| **3-7 Equations of Lines in the Coordinate Plane****EQ – How do you graph and write linear equations?** | **G-GPE.2.5** **MP 1, MP 3,** **MP 4** | **1** | * **graph and write linear equations**
 |  |
| **Quiz – if needed** |  |  |  |  |
| **3-4 Parallel and Perpendicular Lines****and****3-8 Slopes of Parallel and Perpendicular Lines****Slope for Parallel & Perpendicular lines IS TESTED on the Geometry EOC.****EQ – How do you relate slope to parallel and perpendicular lines** | **G-MG.1.3****G-GPE.2.5 MP 1, MP 3, MP 4** | **1** | * **Relate Parallel to Perpendicular Lines**
* **Make sure you emphasize:**
* **Slopes for parallel & perpendicular lines**
 | **Section 2 – Video 7** |
| **3-5 Parallel Lines and Triangles****EQ – How do you use parallel lines to prove a theorem about triangles?****How do you find measures of angles of triangles?** | **G-CO.3.10 MP 1, MP 3, MP 6** | **1** | * **use parallel lines to prove a theorem about triangles**
* **find measures of angles of triangles**
 |  |
| **Chapter 3 Review**  |  | **1** |  |  |
| **Chapter 3 Test** |  | **1** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 4 – Congruent Triangles** |  |  |  |  |
| **4-1 Congruent Figures****EQ – How do you recognize congruent figures and their corresponding parts?****Include: Concept Byte: Building Congruent Triangles p225** | **G-SRT.2.5** **MP 1, MP 3,** **MP 4, MP 7** | **1** | * **recognize congruent figures and their corresponding parts**
 | **Section 4 – Video 10****Section 4 – Video 11** |
| **4-2 Triangle Congruence by SSS and SAS****EQ – How do you prove two triangles congruent using the SSS and SAS Postulates?** | **G-SRT.2.5** **MP 1, MP 3,** **MP 4, MP 7** | **1** | * **prove two triangles congruent using the SSS and SAS Postulates**
 | **Section 4 – Video 4** |
| **4-3 Triangle Congruence by ASA and AAS****EQ – How do you prove two triangles congruent using the SAS Postulate and the AAS Theorem?****Concept Byte: Exploring AAA and SSA (Technology) p242** | **G-SRT.2.5** **MP 1, MP 3, MP 7** | **1** | * **prove two triangles congruent using the SAS Postulate and the AAS Theorem**
 | **Section 4 – Video 5** |
| **Quiz?** |  |  |  |  |
| **4-4 Using Corresponding Parts of Congruent Triangles****EQ – How do you use triangle congruence and corresponding parts of congruent triangles to prove that parts of two triangles are congruent?****Concept Byte: Paper-Folding Conjectures p249** | **G-SRT.2.5****G-SRT.4.12** **MP 1, MP 3** | **2** | * **use triangle congruence and corresponding parts of congruent triangles to prove that parts of two triangles are congruent**
 | **Section 4 – Video 6** |
| **Proof Review Day**  |  |  |  |
| **4-5 Isosceles and Equilateral Triangles****EQ – How do you use and apply properties of isosceles and equilateral triangles?****Algebra Review: Systems of Linear Equations p257** | **G-CO.3.10****G-CO.4.13****G-SRT.2.5** **MP 1, MP 3, MP 4** | **1** | * **use and apply properties of isosceles and equilateral triangles**
 |  |
| **4-6 Congruence in Right Triangles****EQ – How do you prove right triangles congruent using the Hypotenuse – Leg Theorem?** | **G-SRT.2.5** **MP 1, MP 3** | **1** | * **prove right triangles congruent using the Hypotenuse – Leg Theorem**
 |  |
| **4-7 Congruence in Overlapping Triangles****EQ – How do you identify congruent overlapping triangles?****How do you prove two triangles congruent using other congruent triangles?** | **G-SRT.2.5** **MP 1, MP 3,** **MP 4** | **2** | * **identify congruent overlapping triangles**
* **prove two triangles congruent using other congruent triangles**
 |  |
| **Chapter 4 Review**  |  | **1** |  |  |
| **Chapter 4 Test** |  | **1** |  |  |
| **Teacher Planning Day** | **10/21/16** |  |  |
| **2nd 9-weeks -- *There are 33 teaching days and*** ***3 exam days / Early Release Days*** | **10/24/16 – 12/16/16** |  |  |
| **Veteran’s Day** | **11/11/16** |  |  |
| **Thanksgiving Holiday** | **11/23/16 – 11/25/16** |  |  |
| **Middle School Exams – Mid-Year Progress Monitoring Test - (Early Release Days)** | **12/14/16** **12/15/16 & 12/16/16** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 5 – Relationships Within Triangles** |  |  |  |  |
| **5-1 Midsegments of Triangles****EQ – How do you use properties of midsegments to solve problems?****Concept Byte: Investigating Midsegments (Technology) p284** | **G-CO.3.10****G-CO.4.12****G-SRT.2.5** **MP 1, MP 3,** **MP 4, MP 5** | **1** | * **use properties of midsegments to solve problems**
 |  |
| **5-2 Perpendicular and Angle Bisectors****EQ – How do you use properties of perpendicular bisectors and angle bisectors?****Concept Byte: Paper Folding Bisectors p300** | **G-CO.3.9****G-SRT.2.5** **MP 1, MP 3, MP 4, MP 5, MP 8** | **1** | * **use properties of perpendicular bisectors and angle bisectors**
 |  |
| **5-3 Bisectors in Triangles** **EQ – How do you identify properties of perpendicular bisectors and angle bisectors?****Concept Byte: Special Segments (Technology) p308** | **G-C.1.3** **MP 1, MP 3, MP 4, MP 7,** **MP 8** | **1** | * **identify properties of perpendicular bisectors and angle bisectors**
 |  |
| **5-4 Medians and Altitudes****EQ – How do you identify properties of medians and altitudes of a triangle?** | **G-CO.3.10****G-SRT.2.5** **MP 1, MP 3, MP 5, MP 7, MP 8** | **1** | * **identify properties of medians and altitudes of a triangle**
 |  |
| **Chapter 5 Mid-Chapter Quiz** |  | **1** |  |  |
| **5-5 Indirect Proof****\*Optional – for Honors\*****EQ – How do you use indirect reasoning to write proofs?****Algebra Review: Solving Inequalities p323** | **G-CO.3.10 MP 1, MP 3, MP 4** | **OPTIONAL** | * **use indirect reasoning to write proofs**
 |  |
| **5-6 Inequalities in One Triangle****EQ – How to you use inequalities involving angles and sides of triangles?** | **G-CO.3.10** **MP 1, MP 3** | **1** | * **use inequalities involving angles and sides of triangles**
 | **Section 4 – Video 9** |
| **5-7 Inequalities in Two Triangles****EQ – How do you apply inequalities in two triangles?** | **G-CO.3.10** **MP 1, MP 3** | **1** | * **apply inequalities in two triangles**
 | **Section 4 – Video 9** |
| **Chapter 5 Review**  |  | **1** |  |  |
| **Chapter 5 Test** |  | **1** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 8 – Right Triangles & Trigonometry** |  |  |  |  |
| **8-1 The Pythagorean Theorem and Its Converse****EQ – How do you use the Pythagorean Theorem and its converse?****Concept Byte: The Pythagorean Theorem p490** | **G-SRT.2.8****G-SRT.2.4** **MP 1, MP 3,** **MP 4, MP 8** | **1** | * **use the Pythagorean Theorem and its converse**
 | **Section 5 – Video 1** |
| **8-2 Special Right Triangles****How do you use the properties of 45°-45°-90° and 30°-60°-90° triangles?****Include: Concept Byte: Exploring Trigonometric Ratios (Technology) p506** | **G-SRT.3.8** **MP 1, MP 3,** **MP 4** | **1-2** | * **use the properties of 45°-45°-90° and 30°-60°-90° triangles**
 | **Section 5 – Video 3** |
| **8-3 Trigonometry****EQ – How do you use the sine, cosine, and tangent ratios to determine side lengths and angle measures in right triangles?** | **G-SRT.3.8****G-SRT.2.4****G-MG.1.1** **MP 1, MP 3,** **MP 4, MP 6** | **2** | * **use the sine, cosine, and tangent ratios to determine side lengths and angle measures in right triangles**
 | **Section 5 – Video 5****Section 5 – Video 6** |
| **8-4 Angles of Elevation and Depression****EQ – How do you use angles of elevation and depression to solve problems?****Concept Byte: Measuring from Afar p515** | **G-SRT.2.8** **MP 1, MP 3,** **MP 4, MP 6** | **2** | * **use angles of elevation and depression to solve problems**
 | **Section 10 – Video 3** |
| **Review on 8-1, 8-2, 8-3 and 8-4** |  | **1** |  |  |
| **Test on 8-1, 8-2, 8-3 and 8-4** |  | **1** |  |  |
| **8-5 Laws of Sines****Optional – for Honors****EQ – How do you apply the Law of Sines?** | **G-SRT.4.11****G-SRT.4.10** **MP 1, MP 3, MP 4** | **OPTIONAL**  | **• apply the Law of Sines** |  |
| **8-6 Laws of Cosines****Optional – for Honors****EQ – How do you apply the Law of Cosines?** | **G-SRT.4.11****G-SRT.4.10** **MP 1, MP 3, MP 4** | **OPTIONAL**  | **• apply the Law of Cosines** |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 6 – Polygons and Quadrilaterals** |  |  |  | **Section 6 – Video 1 and Video 2 (Intro to Quadrilaterals)** |
| **6-1 The Polygon Angle-Sum Theorems****EQ – How do you find the sum of the measures of the interior angles of a polygon?****How do you find the sum of the measures of the exterior angles of a polygon?****Concept Byte: Exterior Angles of Polygons (Technology) p352** | **G-SRT.2.5** **MP 1, MP 3** | **1** | * **find the sum of the measures of the interior angles of a polygon**
* **find the sum of the measures of the exterior angles of a polygon**
 | **Section 3 – Video 2** |
| **6-2 Properties of Parallelograms****EQ – How do you use relationships among sides and angles of parallelograms?****How do you use relationships among diagonals of parallelograms?** | **G-CO.3.11****G-SRT.2.5****MP 1, MP 3,** **MP 4** | **1** | * **use relationships among sides and angles of parallelograms**
* **use relationships among diagonals of parallelograms**
 | **Section 6 – Video 3** |
| **6-3 Proving That a Quadrilateral Is a Parallelogram****EQ – How do you determine whether a quadrilateral is a parallelogram?** | **G-CO.3.11****G-SRT.2.5** **MP 1, MP 3** | **1** | * **determine whether a quadrilateral is a parallelogram**
 |  |
| **6-4 Properties of Rhombuses, Rectangles, and Squares****EQ – How do you define and classify special types of parallelograms?****How do you use properties of diagonals of rhombuses and rectangles?** | **G-CO.3.11****G-SRT.2.5** **MP 1, MP 3** | **2** | * **define and classify special types of parallelograms**
* **use properties of diagonals of rhombuses and rectangles**
 | **Section 6 – Video 4 and Video 5 (Rectangles & Squares)****Section 6 – video 6 (Rhombus)** |
| **6-5 Conditions for Rhombuses, Rectangles, and Squares** **EQ – How do you determine whether a parallelogram is a rhombus or rectangle?** | **G-CO.3.11****G-SRT.2.5** **MP 1, MP 3,** **MP 4** | **1** | * **determine whether a parallelogram is a rhombus or rectangle**
 |  |
| **6-6 Trapezoids and Kites****EQ – How do you verify and use properties of trapezoids and kites?** | **G-SRT.2.5** **MP 1, MP 3,** **MP 4, MP 6** | **1** | * **verify and use properties of trapezoids and kites**
 | **Section 6 – Video 7 (Kites)****Section 6 – Video 8 Trapezoids)****Section 6 – video 9 (Midsegments)** |
| **Quiz?**  |  | **1** |  |  |
| **6-7 Polygons in the Coordinate Plane****EQ – How do you classify polygons in the coordinate plane?****Algebra Review: Simplifying Radicals p399** | **G-GPE.2.7 MP 1, MP 3,** **MP 4, MP 8** | **1** | * **classify polygons in the coordinate plane**
 | **Section 6 – Video 10 and Video 11** |
| **6-8 Applying Coordinate Geometry****EQ – How do you name coordinates of special figures by using their properties? How do you prove theorems using figures in the coordinate plane?** | **G-GPE.2.4** **MP 1, MP 2,** **MP 3, MP 7** | **1** | **• name coordinates of special figures by using**  **their properties****• prove theorems using figures in the** | **Section 7 - Video 7 and Section 7 - Video 8 (Properties of N-gons)** |
| **6-9 Proofs Using Coordinate Geometry****Concept Byte: Quadrilaterals in Quadrilaterals (Technology) p413** | **G-GPE.2.4** **MP 1, MP 2,** **MP 3, MP 7** | **1** |  |
| **Chapter 6 Review**  |  | **1-2** |  |  |
| **Chapter 6 Test** |  | **1** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Constructions** **All of the constructions throughout the book have been combined into one section.** |  |  | **Teach the constructions section anytime after Chapter 3.**  |  |
| **1-6 Basic Constructions****EQ – How do you make basic constructions using a straightedge and a compass?****Concept Byte: Exploring Constructions (Technology)** | **G-CO.4.12****G-CO.1.1** **MP 1, MP 3,** **MP 5, MP 7** | **1** | * **make basic constructions using a straightedge and a compass**
 | **Section 1- Video 9 (Introduction to Geometry)****Section 4 Video 12 (Triangles)****Section 6 – Video 12 (Quadrilaterals)** |
| **3-6 Constructing Parallel and Perpendicular Lines****EQ – How do you construct parallel and perpendicular lines?** | **G-CO.4.12****G-CO.4.13** **MP 1, MP 3, MP 5** | **1-2** | * **construct parallel and perpendicular lines**
 | **Section 2 – Video 9 (Angles)** |
| **Concept Byte: Inscribed and Circumscribed Figures Pg. 667** | **G-CO.4.13****MP 1, MP 3, MP 5** | **1** | * **construct inscribed polygons**

**Supplement equilateral triangles and hexagons inscribed in circles.**  | **Pg. 306 #20, 21****Pg. 633 #36****Section 8 – Video 8 (Constructing Inscribed Polygons)** |
| **Constructions Review** |  | **1** |  |  |
| **Constructions Test / Project** |  | **1** |  |  |
| **Semester Review** |  | **3-4** |  |  |
| **Semester Exams – Early Release Days** |  | **3** |  |  |
| **Semester Exams – Early Release Days****Mid-Year Progress Monitoring Test** | **12/14/16** **12/15/16****12/16/16** |  |
| **Winter Holidays** | **12/17/16 – 1/2/17** |  |
| **3rd 9-weeks -- *There are 47 teaching days.***  | **1/4/17 – 3/10/17** |  |
| **Teacher Planning Day** | **1/3/17** |  |
| **Martin Luther King Day**  | **1/16/17** |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 7 – Similarity** |  |  |  |  |
| **7-1 Ratios and Proportions****EQ – How do you write ratios and solve proportions?** | **G-SRT.2.5** **MP 1, MP 3, MP 4, MP 6, MP 7** | **1** | * **write ratios and solve proportions**
 |  |
| **7-2 Similar Polygons** **EQ – How do you identify and apply similar polygons?****Algebra Review: Solving Quadratic Equations p439** | **G-SRT.2.5** **MP 1, MP 3,** **MP 4, MP 6** | **2** | * **identify and apply similar polygons**
 |  |
| **7-3 Proving Triangles Similar** **EQ – How do you use the AA** $\~$ **Postulate and the SAS** $\~$ **and SSS** $\~ $**Theorems?****How do you use similarity to find indirect measures?****Concept Byte: Fractals (Extension) p448** | **G-SRT.2.5****G-GPE.2.5 MP 1, MP 3, MP 4** | **1** | * **use the AA** $\~$ **Postulate and the SAS** $\~$ **and SSS** $\~ $ **Theorems?**
* **How do you use similarity to find indirect measures**
 | **Section 4 – Video 7****Section 4 – Video 8** |
| **Quiz?** |  | **1** |  |  |
| **7-4 Similarity I Right Triangles****EQ – How do you find and use relationships in similar right triangles?** | **G-SRT.2.5****G-GPE.2.5 MP 1, MP 3, MP 4** | **2** | * **find and use relationships in similar right triangles**
 | **Section 5 – Video 4** |
| **7-5 Proportions in Triangles** **EQ – How do you use the Side-Splitter Theorem and the Triangle-Angle-Bisector Theorem?****Concept Byte: The Golden Ratio p468****Concept Byte: Exploring Proportions in Triangles (Technology) p470** | **G-SRT.2.4** **MP 1, MP 3, MP 4** | **2** | * **use the Side-Splitter Theorem and the Triangle-Angle-Bisector Theorem**
 |  |
| **Chapter 7 Review**  |  | **1** |  |  |
| **Chapter 7 Test** |  | **1** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 12 – Circles** |  |  |  |  |
| **1-8 Perimeter, Circumference, and Area****EQ – How do you find the perimeter or circumference of basic shapes?** **How do you find the area of basic shapes?** **Review: Classifying Polygons p57****Concept Byte: Comparing Perimeters and Areas (Technology) p68** | **N-Q.1.1** **MP 1, MP 3,** **MP 4, MP 7** | **1** | * **find the perimeter or circumference of basic shapes**
* **find the area of basic shapes**
* **compare area and perimeters in modeling situations**
 | **Section 9 – Video 2 (Cavalieri’s Principle for Area)****Section 8 – Video 1****Section 8 – Video 2****Section 7 – Video 4 and Section 7 – Video 5 (Segments in Regular N-gons)** |
| **10-6 Circles and Arcs****Concept Byte: Circle Graphs p658****EQ – How do you find the measures of central angles and arcs?****How do you find the circumference and arc length?** | **G-CO.1.1****G-C.1.1****G-C.1.2****G-C.2.5** **MP 1, MP 3,** **MP 4, MP 6,** **MP 8** | **1** | * **find the measures of central angles and arcs**
* **find the circumference and arc length**
 |  |
| **10-7 Areas of Circles and Sectors** **EQ – How do you find the areas of circles, sectors, and segments of circles?****Concept Byte: Exploring the Area of a Circle p659****Concept Byte: Inscribed and Circumscribed Figures p667** | **G-C.2.5** **MP 1, MP 3,** **MP 4, MP 6,** **MP 8** | **1** | * **find the areas of circles, sectors, and segments of circles**
 | **Section 8 – Video 8 (Inscribed Polygons)****Section 8 – Video 11 (Circumscribed)** |
| **Converting Degrees to Radians** **Use the worksheets and video from Math Nation** | **G-C.2.5** **MP 1, MP 3, MP 4** | **2** | **• determine arc length in terms of radians.** **• determine sector area in terms of radians.** **• convert common degree measures into radians.**  | **Section 8 – Video 6**  |
| **Quiz** |  | **1** |  |  |
| **12-1 Tangent Lines****EQ – How do you use properties of a tangent to a circle?** | **G-C.1.2** **MP 1, MP 3, MP 4** | **1** | * **use properties of a tangent to a circle**
 | **Section 8 – Video 9 and Section 8 – Video 10 (Tangents, Secants & Chords)** |
| **12-2 Chords and Arcs****EQ – How do you use congruent chords, arcs, and central angles?****How do you use relationships with perpendicular bisectors to chords?****Concept Byte: Paper Folding With Circles p770** | **G-C.1.2** **MP 1, MP 3** | **1** | * **use congruent chords, arcs, and central angles**
* **use relationships with perpendicular bisectors to chords**
* **construct the center of a circle using perpendicular bisectors of chords**
 | **Section 8 – Video 7** |
| **12-3 Inscribed Angles****EQ – How do you find the measure of an inscribed angle?****How do you find the measure of an angle formed by a tangent and a chord?** | **G-C.1.2****G-C.1.3****G-C.1.4** **MP 1, MP 3,** **MP 4, MP 6** | **1** | * **find the measure of an inscribed angle**
* **find the measure of an angle formed by a tangent and a chord**
 | **Section 8 – Video 7** |
| **Quiz?** |  | **1** |  |  |
| **12-4 Angle Measures and Segment Lengths** **EQ – How do you find measures of angles formed by chords, secants, and tangents?****How do you find the lengths of segments associated with circles?****Concept Byte: Exploring Chords and Secants (Technology) p789** | **G-C.1.2** **MP 1, MP 3, MP 4** | **2** | * **find measures of angles formed by chords, secants, and tangents**
* **find the lengths of segments associated with circles**
 | **Section 8 – Video 9 and Section 8 – Video 10 (Tangents, Secants & Chords)** |
| **12-5 Circles in the Coordinate Plane****EQ – How do you write the equation of a circle?****How do you find the center and radius of a circle from the equation?****Concept Byte: Equation of a Parabola (Technology) p804** |  | **2** | * **write the equation of a circle**
* **find the center and radius of a circle from the equation**
 | **Section 8 – Video 3****Section 8 – Video 4** |
| **12-6 Locus: A Set of Points****EQ – How do you draw and describe a locus?** | **G-GMD.2.4** | **Optional** | * **draw and describe a locus**
 |  |
| **Chapter 12 Review**  |  | **1** |  |  |
| **Chapter 12 Test** |  | **1** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 10 – Area** |  |  |  |  |
| **10-1 Areas of Parallelograms and Triangles****EQ – How do you find the area of parallelograms and triangles?****Concept Byte: Transforming to Find Area (for Lessons 10-1 & 10-2) p614** | **G-MG.1.1****G-GPE.2.7 MP 3, MP 4, MP 5, MP6** | **1** | * **find the area of parallelograms and triangles**
 | **Section 4 – Video 3 (area & perimeter in coordinate plane)****Section 9 – Video 2 (Cavalieri’s Principle for Area)** |
| **10-2 Area of Trapezoids, Rhombuses, & Kites****EQ – How do you find the area of a trapezoid, rhombus, or kite?** | **G-MG.1.1** **MP 1, MP 3,** **MP 4, MP 6** | **1** | * **find the area of a trapezoid, rhombus, or kite**
 | **Section 10 – Video 5 (Areas in Real World Contexts)** |
| **10-3 Areas of Regular Polygons****EQ – How do you find the area of a regular polygon?** | **G-MD.1.1****G-CO.4.13** **MP 1, MP 3, MP 4, MP 6, MP 7** | **2** | * **find the area of a regular polygon**
 | **Section 7 – Video 1 (Intro od N-gons)****Section 7 – Video 2 and Video 3 (Angles of N-gons)****Section 7 – Video 6 (Area of N-gons)** |
| **Quiz?** |  |  |  |  |
| **10-4 Perimeters and Areas of Similar Figures****EQ – How do you find the perimeters and area of similar polygons?** | **G-GMD.1.3 MP 1, MP 3,** **MP 4, MP 5,** **MP 7, MP 8** | **1** | * **find the perimeters and area of similar polygons**
 |  |
| **10-5 Trigonometry and Area****EQ – How do you find the areas of regular polygons and triangles using trigonometry?** | **G-SRT.4.9** **MP 1, MP 3,** **MP 4, MP 6,** **MP 8** | **2** | * **find the areas of regular polygons and triangles using trigonometry**
 |  |
| **10-8 Geometry Probability****EQ – How do you use segment and area models to find the probabilities of events?** | **S-CP.1.1** **MP 1, MP 3, MP 4** | **Optional** | **• use segment and area**  **models to find the**  **probabilities of events** |  |
| **Chapter 10 Review**  |  | **1** |  |  |
| **Chapter 10 Test** |  | **1** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 11 – Surface Area and Volume** |  |  |  |  |
| * 1. **Nets and Drawings for Visualizing Geometry**

**EQ – How do you make nets and drawings of three-dimensional figures?** | **G-CO.1.1****MP 3, MP 4, MP 7** | **1** | **• make nets and drawings of three-dimensional figures** | **Section 9 – Video 1** |
| **11-1 Space Figures and Cross Sections****EQ – How do you recognize Polyhedra and their parts?****How do you visualize cross sections of space figures?****Concept Byte: Perspective Drawing p696** | **G-GMD.2.4 MP 1, MP 2, MP 3, MP 4,** **MP 5, MP 7** | **1** | * **recognize Polyhedra and their parts**
* **visualize cross sections of space figures**
 | **Section 9 – Video 10** |
| **11-2 Surface Areas of Prisms and Cylinders** **EQ – How do you find the surface area of a prism and a cylinder?****Algebra Review: Literal Equations p698** | **G-MG.1.1** **MP 1, MP 3, MP 4, MP 6, MP 7, MP 8** | **1** | * **find the surface area of a prism and a cylinder**
 | **Section 9 – Video 5** |
| **11-4 Volumes of Prisms and Cylinders****EQ – How do you find the volume of a prism and the volume of a cylinder?****Concept Byte: Finding Volume** | **G-GMD.1.1****G-GMD.1.2****G-GMD.1.3****G-MG.1.1** **MP 1, MP 3, MP 4, MP 6, MP 7** | **1** | * **find the volume of a prism and the volume of a cylinder**
 | **Section 9 – Video 3 (Cavalieri’s Principle for Volume)****Section 9 – Video 4** |
| **Chapter 11 Quiz** |  | **1** |  |  |
| **11-3 Surface Areas of Pyramids and Cones****EQ – How do you find the surface area of a pyramid and a cone?** | **G-MG.1.1** **MP 1, MP 3,** **MP 4, MP 6, MP 7** | **1** | * **find the surface area of a pyramid and a cone**
 | **Section 9 – Video 7** |
| **11-5 Volumes of Pyramids and Cones****EQ – How do you find the volume of a pyramid and of a cone?****Concept Byte: Finding Volume** | **G-GMD.1.3****G-MG.1.1** **MP 1, MP 3,** **MP 4, MP 7** | **1** | * **find the volume of a pyramid and of a cone**
 | **Section 9 – Video 6****Section 10 – Video 6 (volumes in Real World Contexts)** |
| **11-6 Surface Areas and Volumes of Spheres****EQ – How do you find the surface area and volume of a sphere?** | **G-GMD.1.3****G-MG.1.1** **MP 1, MP 3, MP 4, MP 6, MP 7, MP 8** | **1** | * **find the surface area and volume of a sphere**
 | **Section 9 – Video 8** |
| **11-7 Areas and Volumes of Similar Solids****EQ – How do you compare and find the areas and volumes of similar solids?****Concept Byte: Exploring Similar Solids (Technology)** | **G-MG.1.1****G-MG.1.2** **MP 3, MP 4,** **MP 7, MP 8** | **1** | * **compare and find the areas and volumes of similar solids**
 | **Section 9 – Video 9** |
| **Chapter 11 Review**  |  | **1** |  |  |
| **Chapter 11 Test** |  | **1** |  |  |
| **Spring Break** | **3/13/17 – 3/17/17** |  |  |
| **Teacher Planning Day** | **3/20/17** |  |  |
| **4th 9-weeks Dates *-* There are 47 teaching days and** **3 Exam / Early Release Days**  | **3/21/17 – 5/30/17** |  |  |
| **Middle School Exams (Early Release Days)** | **5/25/17 & 5/26/17 & 5/30/17** |  |  |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 9 – Transformations** |  |  |  |  |
| **9-1 Translations** **EQ – How do you identify isometries?****How do you find translation images of figures?****Concept Byte: Tracing Paper Transformations** | **G-GO.1.2****G-CO.1.4****G-CO.2.6** **MP 1, MP 3,** **MP 4, MP 7** | **1** | * **identify isometries**
* **find translation images of figures**
 | **Section 1 – Video 6****Section 1 – Video 7****Section 3 – Video (Polygons)** |
| **9-2 Reflections** **EQ – How do you find reflection images of figures?****Concept Byte: Paper Folding and Reflections** | **G-CO.1.5****G-CO.1.2****G-CO.1.4****G-CO.2.6** **MP 1, MP 3, MP 4** | **1** | * **find reflection images of figures**
 | **Section 1 – Video 8 (second part)****Section 3 – video 4 (Polygons)** |
| **9-3 Rotations** **EQ – How do you draw and identify rotation images of figures?****Concept Byte: Symmetry** | **G-CO.1.4****G-CO.1.2****G-CO.2.6** **MP 1, MP 3, MP 4** | **1** | * **draw and identify rotation images of figures**
 | **Section 1 – Video 8** **Section 3 – Video 5 and Video 6 (Polygons)****Section 3 – Video 10 (Symmetry of Polygon)** |
| **9-4 Composition of Isometries****EQ – How do you find compositions of isometries, including glide reflections?****How do you classify isometries?** | **G-SRT.2.6****G-CO.1.5** **MP 1, MP 3, MP 6** | **1** | * **find compositions of isometries, including glide reflections**
* **classify isometries**
 | **Section 3 – Video 9** |
| **9-5 Congruence Transformations****EQ – How do you identify congruence transformations?****How do you prove triangle congruence using isometries?** | **G-CO.2.7****G-CO.2.6****G-CO.2.8** **MP 1, MP 3, MP 4** | **1**  | * **identify congruence transformations**
* **prove triangle congruence using isometries**
 | **Section 2 – Video 8****Section 3 – Video 11 (Congruence)****Section 8 – Video 5 (Circle)** |
| **9-6 Dilations** **EQ – How do you understand dilation images of figures?****Concept Byte: Exploring Dilations** | **G-SRT.1.1a & b****G-CO.1.2****G-SRT.1.2** **MP 1, MP 3,** **MP 4, MP 7** | **1** | * **understand dilation images of figures**
 | **Section 1 – Video 7** **Section 3 – Video 7 and Video 8 (Polygons)** |
| **9-7 Similarity Transformations****EQ – How do you identify similarity transformations and verify properties of similarity?** | **G-SRT.1.2****G-SRT.1.3** **MP 1, MP 2,** **MP 3, MP 4** | **1** | * **identify similarity transformations and verify properties of similarity**
 | **Section 3 – Video 11 (Similarity)** |
| **Chapter 9 Review**  |  | **1** |  |  |
| **Chapter 9 Test** |  | **1** |  |  |
| **EOC Review - Try to leave 2 weeks for EOC review (modify the pacing as needed)** |
| **Lessons – Pearson Florida Geometry****Math Florida Standards** | **Benchmarks & Math Practices****MAFS.912.** | **Days/****Dates** | **Learning Target Goal****“Students will be able to…”** | **Homework Assignment and****Teacher Comments** |
| **Chapter 13 – Probability** | **Optional – do this after the EOC if you have time – this chapter is NOT tested on the Geometry EOC.** |
| **13-1 Experimental and Theoretical Probability****EQ – How do you calculate experimental and theoretical probability?** | **S-CP.1.1****S-CP.1.4** **MP 1, MP 2,** **MP 3, MP 4, MP 6** |  | * **calculate experimental and theoretical probability**
 |  |
| **13-2 Probability Distributions and Frequency Tables****EQ – How do you make and use frequency tables and probability distributions?** | **S-CP.1.4****S-CP.1.5** **MP 1, MP 2, MP 3** |  | * **make and use frequency tables and probability distributions**
 |  |
| **13-3 Permutations and Combinations****EQ – How do you use permutations and combinations to solve problems?** | **S-CP.2.9** **MP 1, MP 3, MP 6** |  | * **use permutations and combinations to solve problems**
 |  |
| **Chapter 13 Mid-Chapter Quiz** |  |  |  |  |
| **13-4 Compound Probability****EQ – How do you identify independent and dependent events?****How do you find compound probabilities?** | **S-CP.2.7****S-CP.2.8****S-CP.2.9** **MP 3, MP 4, MP 6** |  | * **identify independent and dependent events**
* **find compound probabilities**
 |  |
| **13-5 Probability Models****EQ – How do you construct and use probability models?** | **S-CP.1.4** **MP 1, MP 3** |  | * **construct and use probability models**
 |  |
| **13-6 Conditional Probability Formulas****EQ – How do you understand and calculate conditional probabilities?** | **S-CP.1.5****S-CP.1.2****S-CP.1.3****S-CP.2.6** **MP 1, MP 2,** **MP 3, MP 4** |  | * **understand and calculate conditional probabilities**
 |  |
| **13-7 Modeling Randomness****EQ – How do you understand random numbers?****How do you use probabilities in decision-making?****Concept Byte: Probability and Decision Making** | **S-MD.2.6****S-MD.2.7** **MP 1, MP 3, MP 4** |  | * **understand random numbers**
* **use probabilities in decision-making**
 |  |
| **Chapter 13 Review** |  |  |  |  |
| **Chapter 13 Test** |  |  |  |  |
| **Teachers: Take the time after the EOC to revisit these topics to build a stronger foundation for Algebra 2:*** **Unit Circles – “Paper Plate” Activity**
* **Parent Functions (Parabola, Absolute Value, Square Root, Cubic, Linear, Reciprocal, Other Piecewise, Trig)**
* **Using Trig Functions**
 |