**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** | | | | | | | | | |