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| **Honors Geometry – Fall 2018**  **Unit 3: Congruence and Proofs\***  \* subject to change | | |
| Date | Standard | Topic and Assignment |
| Mon  8/20  Day 14 | MGSE9-12.G.CO.9  MGSE9-12.G.CO.12  **What am I learning today?**  How do we construct angle bisector and copy a segment?  What are the segment and angle addition postulates?  **How will I show that I learned it?**  Be able to construct an angle bisector and copy a segment using a compass and a straightedge. | Unit Opener  WS – Geometry Review, Segment Addition Postulate  Lesson 1  Lines and Angles  Assignment  p. 19 #s 15-18, 27, 29-31, 33, 38, 47, 50 |
| Tues  8/21  Day 15 | MGSE9-12.G.CO.9  MGSE9-12.G.CO.12  **What am I learning today?**  How to construct a perpendicular bisector and basic angle definitions, postulates and theorems.  **How will I show that I learned it?**  Be able to construct a perpendicular bisector using a compass and straightedge. Solve algebraic problems using the ABT and PBT. | Lesson 2  Linear Pairs, Vertical Angles, ABT, and PBT  Assignment  p. 61 #s 14, 16-22, 29,30  p. 180 #s 12-17, 22  WS – Linear Pairs, Vertical Angles, and the PBT |
| Wed  8/22  Day 16 | MGSE9-12.G.CO.9  MGSE9-12.G.CO.12  **What am I learning today?**  How to construct a perpendicular bisector and basic angle definitions, postulates and theorems.  **How will I show that I learned it?**  Be able to construct a perpendicular bisector using a compass and straightedge. Solve algebraic problems using the ABT and PBT. | Lesson 2 (cont’d)  Linear Pairs, Vertical Angles, ABT, and PBT  Assignment  p. 61 #s 14, 16-22, 29,30  p. 180 #s 12-17, 22  WS – Linear Pairs, Vertical Angles, and the PBT |
| Thurs  8/23  Day 17 | MGSE9-12.G.CO.9  MGSE9-12.G.CO.12  **What am I learning today?**  How to construct a parallel line through a given point and the different angle relationships formed when two lines are parallel.  **How will I show that I learned it?**  Be able to construct a parallel line through a given point and solve algebraic problems involving angles of parallel lines. | Lesson 3  Special Angle Pairs  Assignment  p. 82 #s 6-12, 20-23, 37-40, 43 |
| Fri  8/24  Day 18 | MCC9-12.G.CO.10  MCC9-12.G.CO.12  **What am I learning today?**  What are some Theorems related to angles of triangles.  **How will I show that I learned it?**  Be able to solve algebraic problems using the theorems involved with angles of triangles. | Lesson 4  Intro to Triangles  Assignment  p. 122 #s 19-24, 26, 29-35, 45, 46, 49  p. 167 #s 13-20, 22-25, 28-29, 33-34, 44-45 |
| Mon  8/27  Day 19 |  | Quiz  Lines and Angles (Lessons 1-3) |
| Tues  8/28  Day 20 | Cobb Honors Standards – Unit 3, #1  **What am I learning today?**  What are midpoints, midsegments, and medians and how do we find/construct them?  **How will I show that I learned it?**  Be able solve algebraic problems involving midpoints, midsegments, and medians. Be able to construct them in a triangle. | Lesson 5  Special Segments of Triangles (midsegments and medians)  Assignment  p. 194 #s 12-15, 21-26, 29-32  p. 200 #s 11-16, 18-26, 30-35, 44-45 |
| Wed  8/29  Day 21  \*Early Release\* | Cobb Honors Standards – Unit 3, #1  **What am I learning today?**  What are altitudes, angle bisectors, and perpendicular bisectors and how do we construct them?  **How will I show that I learned it?**  Be able to solve algebraic problems involving altitudes, angle bisectors, and perpendicular bisectors as well as construct each in a triangle. | Lesson 6  Special Segments of Triangles – Part 2 (altitudes, angle bisectors, and perpendicular bisectors)  Assignment  p. 187 #s 12-15, 18-19, 22-27 |
| Thurs  8/30  Day 22 | MGSE9-12.G.CO.10  MGSE9-12.G.CO.12  **What am I learning today?**  What are the triangle inequalities and how do we use them? What is the Hinge Theorem?  **How will I show that I learned it?**  Be able to use the triangle inequalities and the Hinge Theorem in algebraic problems. | Lesson 7  Triangle Inequalities and The Hinge Theorem  Assignment  WS – Inequalities in Triangles |
| Fri  8/31  Day 23 | MGSE9-12.G.CO.6  MGSE9-12.G.CO.7  MGSE9-12.G.CO.8  **What am I learning today?**  What are 5 postulates used to prove that two triangles are congruent?  **How will I show that I learned it?**  Be able to identify which postulates can be used to prove two triangles congruent in varying pictures. | Lesson 8  Triangle Congruency  Assignment  p. 129 # 17-18, 23-25, 35-36  p. 142 # 11-18, 34-35  p. 151 # 4-5, 11-12, 14-15, 22, 31 |
| Tues  9/4  Day 24 | Cobb Honors Standards – Unit 2, #2  **What am I learning today?**  Based on the 5 congruency postulates, what is the meaning of CPCTC? How do I write a 2-column proof?  **How will I show that I learned it?**  Be able to write a 2-column proof using both congruency postulates and CPCTC. | Lesson 9  CPCTC and Two-Column Proofs  Assignment  TBD |
| Wed  9/5  Day 25 | Cobb Honors Standards – Unit 2, #2  **What am I learning today?**  Based on the 5 congruency postulates, what is the meaning of CPCTC? How do I write a 2-column proof?  **How will I show that I learned it?**  Be able to write a 2-column proof using both congruency postulates and CPCTC. | Lesson 9 (cont’d)  Two-Column Proofs  Assignment  TBD |
| Thurs  9/6  Day 26 |  | Quiz  Triangles (No proofs) |
| Fri  9/7  Day 27 | Cobb Honors Standards – Unit 2, #2  **What am I learning today?**  Based on the 5 congruency postulates, what is the meaning of CPCTC? How do I write a 2-column proof?  **How will I show that I learned it?**  Be able to write a 2-column proof using both congruency postulates and CPCTC. | Lesson 9 (cont’d)  Two-Column Proofs  Assignment  p. 157 # 8-11, 14-15, 19-21, 30-31 |
| Mon  9/10  Day 28 | MGSE9-12.G.CO.11  **What am I learning today?**  The properties of parallelograms using triangle proofs.  **How will I show that I learned it?**  Be able to use the properties of parallelograms to solve algebraic problems. | Lesson 10  Parallelograms  Assignment  p. 213 # 21-24, 27-30, 32-43, 46-47, 56-57  p. 220 # 9-13, 17-23 |
| Tues  9/11  Day 29 | MGSE9-12.G.CO.11  **What am I learning today?**  What are the special parallelograms?  **How will I show that I learned it?**  Be able to identify a type of parallelogram based on its properties. | Quiz  Two-column proofs  Lesson 11  Special Parallelograms  Assignment  p. 228 # 14-15, 18-31, 48, 52-53  p. 238 # 7-8, 11-16, 18-19, 24-26, 28 |
| Wed  9/12  Day 30 | Cobb Honors Standards – Unit 3, #2  **What am I learning today?**  What are the properties of kites and trapezoids?  **How will I show that I learned it?**  Be able to solve algebraic problems using the properties of kites and trapezoids. | Lesson 11 (cont’d)  Quadrilaterals – Kites and Trapezoids  Assignment  WS - Kites and Trapezoids |
| Thurs  9/13  Day 31 | MGSE9-12.G.CO.13  **What am I learning today?**  What are regular polygons?  **How will I show that I learned it?**  Be able to solve algebraic problems using properties of regular polygons. | Lesson 12  Regular Polygons  Assignment  WS – Regular Polygons |
| Fri  9/14  Day 32 |  | Review  Congruence and Proofs |
| Mon  9/17  Day 33 |  | Review  Congruence and Proofs |
| Tues  9/18  Day 34 |  | Test  Unit 3: Congruence and Proofs |