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| **Honors Geometry – Fall 2018****Unit 3: Congruence and Proofs\*** \* subject to change |
| Date | Standard | Topic and Assignment |
| Mon8/20Day 14 | MGSE9-12.G.CO.9MGSE9-12.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 OpenerWS – Geometry Review, Segment Addition PostulateLesson 1Lines and AnglesAssignmentp. 19 #s 15-18, 27, 29-31, 33, 38, 47, 50 |
| Tues8/21Day 15 | MGSE9-12.G.CO.9MGSE9-12.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 PBTAssignmentp. 61 #s 14, 16-22, 29,30p. 180 #s 12-17, 22WS – Linear Pairs, Vertical Angles, and the PBT  |
| Wed8/22Day 16 | MGSE9-12.G.CO.9MGSE9-12.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 PBTAssignmentp. 61 #s 14, 16-22, 29,30p. 180 #s 12-17, 22WS – Linear Pairs, Vertical Angles, and the PBT  |
| Thurs8/23Day 17 | MGSE9-12.G.CO.9MGSE9-12.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 PairsAssignmentp. 82 #s 6-12, 20-23, 37-40, 43 |
| Fri8/24Day 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 4Intro to TrianglesAssignmentp. 122 #s 19-24, 26, 29-35, 45, 46, 49p. 167 #s 13-20, 22-25, 28-29, 33-34, 44-45 |
| Mon8/27Day 19 |  | QuizLines and Angles (Lessons 1-3) |
| Tues8/28Day 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)Assignmentp. 194 #s 12-15, 21-26, 29-32p. 200 #s 11-16, 18-26, 30-35, 44-45 |
| Wed8/29Day 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)Assignmentp. 187 #s 12-15, 18-19, 22-27 |
| Thurs8/30Day 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 TheoremAssignmentWS – Inequalities in Triangles |
| Fri8/31Day 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 CongruencyAssignmentp. 129 # 17-18, 23-25, 35-36p. 142 # 11-18, 34-35p. 151 # 4-5, 11-12, 14-15, 22, 31 |
| Tues9/4Day 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 9CPCTC and Two-Column ProofsAssignmentTBD |
| Wed9/5Day 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 ProofsAssignmentTBD |
| Thurs9/6Day 26 |  | QuizTriangles (No proofs) |
| Fri9/7Day 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 ProofsAssignmentp. 157 # 8-11, 14-15, 19-21, 30-31 |
| Mon9/10Day 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 10ParallelogramsAssignmentp. 213 # 21-24, 27-30, 32-43, 46-47, 56-57p. 220 # 9-13, 17-23 |
| Tues9/11Day 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. | QuizTwo-column proofsLesson 11Special ParallelogramsAssignmentp. 228 # 14-15, 18-31, 48, 52-53p. 238 # 7-8, 11-16, 18-19, 24-26, 28 |
| Wed9/12Day 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 TrapezoidsAssignmentWS - Kites and Trapezoids |
| Thurs9/13Day 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 12Regular PolygonsAssignmentWS – Regular Polygons |
| Fri9/14Day 32 |  | ReviewCongruence and Proofs |
| Mon9/17Day 33 |  | ReviewCongruence and Proofs |
| Tues9/18Day 34 |  | TestUnit 3: Congruence and Proofs |