Geometry 2013-2014

Assignment List

# Chapter 1 Essentials of Geometry

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| Lesson | Assignment | Total |
| 1.1 Identify Points, Lines, and Planes | 5 #1, 4-38 even, 44-58 even | 27 |
| 1.2 Use Segments and Congruence | 12 #4-36 even, 37-45 all | 26 |
| 1.3 Use Midpoint and Distance Formulas | 19 #2, 4, 6, 10-20 even, 24, 26, 28, 32, 36, 38, 42, 44, 48, 54-64 all | 29 |
| Extra Credit | 22#2, 8 | +2 |
| 1.4 Measure and Classify Angles | 28 #4-26 even, 30, 34-42 even, 48, 50, 52, 56, 60, 64-72 even | 28 |
| 1.5 Describe Angle Pair Relationships | 38 #4-28 even, 32-44 even, 54, 58, 60, 62 | 24 |
| Extra Credit | 41 #2, 6 | +2 |
| 1.6 Classify Polygons | 44 #4-36 even, 40, 44-54 even | 24 |
| 1.7 Find Perimeter, Circumference, and Area | 52 #2-42 even, 46, 48-52 all | 27 |
| Extra Credit | 56 #2, 6 | +2 |
| 1.Review | 64 #1-22 | 22 |
| 1.Test | Test | 100 |

# Chapter 2 Reasoning and Proof

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| Lesson | Assignment | Total |
| 2.1 Inductive Reasoning | 75 #5, 6-18 even, 22-28 even, 32, 34, 38-46 even, 47-49 all | 22 |
| 2.2 Analyze Conditional Statements | 82 #4-20 even, 26, 28, 32, 36-52 even, 53-55 all | 24 |
| 2.3 Apply Deductive Reasoning | 90 #4-12 even, 16-28 even, 30-38 all | 21 |
| Extra Credit | 93 #2, 4 | +2 |
| 2.4 Use Postulates and Diagrams | 99 #2-28 even, 34, 40-56 even | 24 |
| 2.5 Reason Using Properties from Algebra | 108 #4-34 even, 39-42 all | 20 |
| Extra Credit | 111 #2, 4 | +2 |
| 2.6 Prove Statements about Segments and Angles | 116 #2-12 even, 16, 18, 22-26 even, 30-36 all | 18 |
| 2.7 Prove Angle Pair Relationships | 127 #2-28 even, 32-46 even, 50, 52 | 24 |
| Extra Credit | 131 #2, 4 | +2 |
| 2.Review | 138 #1-21 | 21 |
| 2.Test | Test | 100 |

# Chapter 3 Parallel and Perpendicular Lines

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| Lesson | Assignment | Total |
| 3.1 Identify Pairs of Lines and Angles | 150 #4-42 even, 45-49 all | 25 |
| 3.2 Use Parallel Lines and Transversals | 157 #2-32 even, 36-52 even | 25 |
| Extra Credit | 160 #2, 6 | +2 |
| 3.3 Prove Lines are Parallel | 165 #2-28 even, 34, 36, 40-54 even | 24 |
| 3.4 Find and Use Slope of Lines | 175 #4-30 even, 34, 36, 40, 44, 46, 48 | 20 |
| Extra Credit | 178 #2, 4 | +2 |
| 3.5 Write and Graph Equations of Lines | 184 #2-12 even, 16-26 even, 30-36 even, 40, 44, 46, 60, 62, 68-74 even | 25 |
| 3.6 Prove Theorems About Perpendicular Lines | 194 #2-10 even, 14-26 even, 30-46 even | 21 |
| Extra Credit | 197 #2, 8 | +2 |
| 3.Review | 206 #1-25 | 25 |
| 3.Test | Test | 100 |

# Chapter 4 Congruent Triangles

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| Lesson | Assignment | Total |
| 4.1 Apply Triangle Sum Properties | 221 #2-36 even, 42-50 even, 54-62 even | 28 |
| 4.2 Apply Congruence of Triangles | 228 #4-16 even, 17, 20, 26, 28, 32-40 all | 20 |
| 4.3 Prove Triangles Congruent by SSS | 236 #2-30 even, 31-37 all | 22 |
| Extra Credit | 239 #2, 4 | +2 |
| 4.4 Prove Triangles Congruent by SAS and HL | 243 #4-28 even, 32-48 even | 22 |
| 4.5 Prove Triangles Congruent by ASA and AAS | 252 #2-20 even, 26, 28, 32-42 even | 18 |
| 4.6 Use Congruent Triangles | 259 #2-10 even, 14-28 even, 34, 38, 41-46 all | 21 |
| Extra Credit | 263 #2, 4 | +2 |
| 4.7 Use Isosceles and Equilateral Triangles | 267 #2-20 even, 24-34 even, 38, 40, 46, 48, 52-60 even | 25 |
| 4.8 Perform Congruence Transformations | 276 #2-42 even, 46-50 even | 24 |
| Extra Credit | 279 #2, 6 | +2 |
| 4.Review | 286 #1-15 | 15 |
| 4.Test | Test | 100 |

# Chapter 5 Relationships within Triangles

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| Lesson | Assignment | Total |
| 5.1 Midsegment Theorem and Coordinate Proof | 298 #2-18 even, 24-32 even, 36, 40, 42, 44, 48-52 even | 21 |
| 5.2 Use Perpendicular Bisectors | 306 #2-16 even, 20, 22, 26, 28, 30, 34-40 even | 17 |
| Extra Credit | 309 #2, 4 | +2 |
| 5.3 Use Angle Bisectors of Triangles | 313 #2-24 even, 30, 34, 40-46 even | 18 |
| 5.4 Use Medians and Altitudes | 322 #2-26 even, 34, 40, 42, 46-54 even | 20 |
| Extra Credit | 325 #2, 4 | +2 |
| 5.5 Use Inequalities in a Triangle | 331 #2, 6-34 even, 40-44 even, 49, 52, 54 | 22 |
| 5.6 Inequalities in Two Triangles and Indirect Proof | 338 #4-18 even, 22-34 even | 15 |
| Extra Credit | 341 #2, 4 | +2 |
| 5.Review | 348 #1-18 | 18 |
| 5.Test | Test | 100 |

# Chapter 6 Similarity

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| Lesson | Assignment | Total |
| 6.1 Ratios, Proportions, and the Geometric Mean | 360 #4-44 even, 50, 52, 60, 72-80 even | 29 |
| 6.2 Use Proportions to Solve Geometry Problems | 367 #2-18 even, 22-28 even, 38, 39 | 15 |
| Extra Credit | 370 #2, 6 | +2 |
| 6.3 Use Similar Polygons | 376 #2-24 even, 28, 32-48 even | 22 |
| 6.4 Prove Triangles Similar by AA | 384 #4-22 even, 26-32 even, 41-46 all, 48 | 21 |
| 6.5 Prove Triangles Similar by SSS and SAS | 391 #4-24 even, 25, 26, 30, 32, 36, 38, 41-44 all | 21 |
| Extra Credit | 395 #2, 6 | +2 |
| 6.6 Use Proportionality Theorems | 400 #2-18 even, 22, 24, 28-36 even | 16 |
| 6.7 Perform Similarity Transformations | 412 #2-22 even, 30, 36, 38, 40-43 all | 18 |
| Extra Credit | 415 #2,4 | +2 |
| 6.Review | 422 #1-16 | 16 |
| 6.Test | Test | 100 |

# Chapter 7 Right Triangles and Trigonometry

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| Lesson | Assignment | Total |
| 7.1 Apply the Pythagorean Theorem | 436 #4-34 even, 40-50 even | 22 |
| 7.2 Use the Converse of the Pythagorean Theorem | 444 #2-30 even, 33, 38, 40, 44-52 even | 23 |
| Extra Credit | 447 #2, 8 | +2 |
| 7.3 Use Similar Right Triangles | 453 #4-26 even, 30-34 even, 40-48 even | 20 |
| 7.4 Special Right Triangles | 461 #2-20 even, 24, 28, 30, 36-38 all, 40, 42-44 all | 20 |
| Extra Credit | 464 #2, 4 | +2 |
| 7.5 Apply the Tangent Ratio | 469 #4-28 even, 32, 36-46 even | 20 |
| 7.6 Apply the Sine and Cosine Ratio | 477 #2-30 even, 34, 36, 42-48 even | 21 |
| 7.7 Solve Right Triangles | 485 #2-28 even, 32-38 even, 43, 44-48 even | 22 |
| Extra Credit | 489 #2, 4 | +2 |
| 7.Extension Law of Sines and Law of Cosines | 491 #1-7 and 492 #1-7 | 14 |
| 7.Review | 498 #1-17 | 17 |
| 7.Test | Test | 100 |

# Chapter 8 Quadrilaterals

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| Lesson | Assignment | Total |
| 8.1 Find Angle Measures in Polygons | 510 #2-34 even, 40-46 even | 21 |
| 8.2 Use Properties of Parallelograms | 518 #4-28 even, 32, 36, 43, 44, 46-56 even | 23 |
| Extra Credit | 521 #2, 4 | +2 |
| 8.3 Show that a Quadrilateral is a Parallelogram | 526 #4-30 even, 34, 36, 39, 43-47 all | 22 |
| 8.4 Properties of Rhombuses, Rectangles, and Squares | 537 #2-52 even, 60-70 even, | 32 |
| Extra Credit | 540 #2, 5 | +2 |
| 8.5 Use Properties of Trapezoids and Kites | 546 #4-32 even, 38, 44-48 all | 21 |
| 8.6 Identify Special Quadrilaterals | 554 #3-12 all, 14-30 even, 38, 40, 44-50 even | 25 |
| Extra Credit | 557 #2, 4 | +2 |
| 8.Review | 564 #1-18 all | 18 |
| 8.Test | Test | 100 |

# Chapter 9 Properties of Transformations

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| Lesson | Assignment | Total |
| 9.1 Translate Figures and Use Vectors | 576 #2-30 even, 34-40 even, 44, 48-54 even | 24 |
| 9.2 Use Properties of Matrices | 584 #2-32 even, 33, 38-44 even | 21 |
| Extra Credit | 587 #2, 6 | +2 |
| 9.3 Perform Reflections | 593 #4-24 even, 28, 40, 42-46 all | 18 |
| 9.4 Perform Rotations | 602 #4-28 even, 32, 36-40 even, 41-46 all | 23 |
| 9.5 Apply Compositions of Transformations | 611 #2-30 even, 40-48 even | 20 |
| Extra Credit | 615 #2, 8 | +2 |
| 9.6 Identify Symmetry | 621 #4-20 even, 24-34 even, 37-45 all | 24 |
| 9.7 Identify and Perform Dilations | 629 #2-28 even, 32-36 even, 40, 43-49 all | 25 |
| Extra Credit | 632 #2, 6 | +2 |
| 9.Review | 640 #1-16 all | 16 |
| 9.Test | Test | 100 |

# Chapter 10 Properties of Circles

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| Lesson | Assignment | Total |
| 10.1 Use Properties of Tangents | 655 #4-32 even, 36, 38, 43-47 all | 22 |
| 10.2 Find Arc Measures | 661 #2-16 even, 20-24 even, 26-34 all | 20 |
| 10.3 Apply Properties of Chords | 667 #4-20 even, 24, 30, 35-37 all | 14 |
| Extra Credit | 670 #2, 4 | +2 |
| 10.4 Use Inscribed Angles and Polygons | 676 #4-24 even, 28, 36, 38, 40-46 all | 21 |
| 10.5 Apply Other Angle Relationships in Circles | 683 #4-26 even, 32-39 all | 20 |
| Extra Credit | 686 #2, 4 | +2 |
| 10.6 Find Segment Lengths in Circles | 692 #2-24 even, 30-42 even | 19 |
| 10.7 Write and Graph Equations of Circles | 702 #2-38 even, 42, 46-54 even | 25 |
| Extra Credit | 705 #2, 4 | +2 |
| 10.Review | 712 #1-19 all | 19 |
| 10.Test | Test | 100 |

# Chapter 11 Measuring Length and Area

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| Lesson | Assignment | Total |
| 11.1 Areas of Triangles and Parallelograms | 723 #4-40 even, 48-54 even | 23 |
| 11.2 Areas of Trapezoids, Rhombuses, and Kites | 733 #4-38 even, 44-48 even | 21 |
| 11.3 Perimeter and Area of Similar Figures | 740 #2-28 even, 35-41 | 21 |
| Extra Credit | 743 #2, 4 | +2 |
| 11.4 Circumference and Arc Length | 749 #2-38 even, 42-48 even | 23 |
| 11.5 Areas of Circles and Sectors | 758 #2-40 even, 46-50 even | 23 |
| Extra Credit | 761 #2, 6 | +2 |
| 11.6 Areas of Regular Polygons | 765 #2-32 even, 36, 38, 47-52 all | 24 |
| 11.7 Use Geometric Probability | 774 #4-26 even, 30-38 even, 39-44 all | 23 |
| Extra Credit | 777 #2, 4 | +2 |
| 11.Review | 784 #1-19 all | 19 |
| 11.Test | Test | 100 |

# Chapter 12 Surface Area and Volumes of Solids

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| --- | --- | --- |
| Lesson | Assignment | Total |
| 12.1 Explore Solids | 798 #2-40 even, 44-60 even | 29 |
| 12.2 Surface Area of Prisms and Cylinders | 806 #2-28 even, 31-37 all | 21 |
| 12.3 Surface Area of Pyramids and Cones | 814 #2-32 even, 35-39 all | 21 |
| Extra Credit | 817 #2, 6 | +2 |
| 12.4 Volume of Prisms and Cylinders | 822 #2-40 even | 20 |
| 12.5 Volume of Pyramids and Cones | 832 #2-30 even, 34, 36, 40, 44-52 even | 23 |
| Extra Credit | 836 #2, 4 | +2 |
| 12.6 Surface Area and Volume of Spheres | 842 #2-36 even, 40-44 even | 20 |
| 12.7 Explore Similar Solids | 850 #2-26 even, 30-48 even | 23 |
| Extra Credit | 854 #2, 4 | +2 |
| 12.Review | 861 #1-17 all | 17 |
| 12.Test | Test | 100 |