

Technical Geometry

Pacing Guide

| Date | Section | Objective | Activity | Class Work |
|-------------|----------|---|--|---|
| 8/12 – 1/5 | | Review Classroom Rules, Procedures and Syllabus | | Student Data Sheet |
| | 1.1, 1.5 | Compass Conjecture Inductive Reasoning Straightedge | pg 143 Patterns pg 75 Sequences pg 325 Measuring Devices | Pg 1 p 1-16, Pg 5 p 1-7 |
| | 1.2 | Point Ray Line Segment | Line Plane PP 2 examples of each | Pg 2 p 1-14 |
| | 2.1 | Natural Integers Irrational | Whole Rational Real PP pg 34, pg 63 Irrational Number Line | Pg 7 p 1-11 |
| | 2.2 | Accuracy Precision Tolerance | TGAF | Pg 8 p 1-14 |
| | 2.3, 2.5 | Congruent Segments Midpoint Formula | | Pg 9 p 1-8, Pg 11 p 1-12 |
| | 2.4 | Ordered pairs Quadrants | pg 121 Plot Points/Reflection | Pg 10 p 1-45 |
| | | Chapter 1, 2 Review | | |
| 8/25 – 1/20 | | Chapter 1, 2 Test | | |
| | 3.1, 3.2 | Angles Vertex Straight Angle Degree Protractor | PP | Pg 12 p 1-12 even, Pg 13 p 1-20 even |
| | 3.3 | Angle Addition Angle Bisector | pg 461 Angles and Ramps | Pg 14 p 1-13 |
| | 3.4, 3.6 | Adjacent Angle Linear Pairs Congruent Angles Vertical Angles | | Pg 15 p 1-12 Pg 17 p 1-10 |
| | 3.5 | Complementary Angles Supplementary Angles | | Pg 16 p 1-10 |
| | 3.7 | Perpendicular Lines | | Pg 18 p 1-15 |
| | | Chapter 3 Review | | |
| 9/3 – 1/29 | | Chapter 3 Test | | |
| | 4.5 | Slope | PP pg 213 Slope | Pg 23 p 1-11 |
| | 4.6 | Linear Equation Y-Intercept Slope-Intercept | Navigator Golf | Pg 24 p 1-10 |

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|-------------|----------|---|---|--------------------------------|
| | 5.1, 5.2 | Acute Obtuse Right Scalene Isosceles Equilateral | PP pg 129 Angle Sum Theory pg 147 Triangle Side Length | Pg 25 p 1-7 Pg 26 p 1-12 |
| | 7.4 | Triangle Side Theorem | | Pg 41 p 1-12 |
| | 5.4 | Congruent Triangles CPCTC | Pg 268 Triangles Movements | Pg 28 p 1-10 |
| | 5.5, 5.6 | SSS SAS ASA AAS | PP | Pg 29 p 1-6, Pg 30 p 1-8 |
| | | Chapter 4, 5 Review | | |
| 9/16 – 2/10 | | Chapter 4, 5 Test | | |
| | | Introduce Group Project | | |
| | 9.1 | Ratio Proportions | pg 293 Sum of Interior Angles | Pg 47 p 1-15 |
| | 9.2 | Similar Polygons Scale Drawing | pg 107 Scale Drawings | Pg 48 p 1-9 |
| | 9.3 | Similar Triangles | pg 118 Triangles | Pg 49 p 1-7 |
| | 9.4, 9.5 | Proportional Parts | pg 127 Classroom | Pg 50 p 1-9, Pg 51 p 1-6 |
| | | Chapter 9 Review | | |
| 9/24 – 2/24 | | Chapter 9 Test | | |
| | 6.1, 6.2 | Median Centroid Concurrent Altitudes Perpendicular Bisector | pg 287 Constructing | Pg 31 p 1-10, Pg 32 p 1-6 |
| | 6.3, 6.4 | Angle Bisector Isosceles Triangles | | Pg 33 p 1-9, Pg 34 p 1-8 |
| | 6.5 | Right Triangles Hypotenuse Legs | pg 78 Archimedean Spiral | Pg 35 p 1-8 |
| | 6.6 | Pythagorean Theorem | pg 234 PT | Pg 36 p 1-16 |
| | 6.7 | Distance Formula | pg 87 Integers | Pg 37 p 1-10 |
| | | Chapter 6 Review | | |
| 10/6 – 3/5 | | Chapter 6 Test | | Vocabulary Notebook Due |
| | | Nine Week Review | | |
| 10/8 – 3/11 | | Nine Week Test | | |
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|--------------|------------|--|---|--------------------------------|
| | 13.1 | Radical expressions | pg 59 Square Roots | Pg 74 p 1-15 |
| | 13.2, 13.3 | 45-45-90 Triangles 30-60-90 Triangles | | Pg 75 p 1-6, Pg 76 p 1-6 |
| | 13.4, 13.5 | Trigonometric Ratio | pg 259 Chief SOHCAHTOA | Pg 77 p 1-4, Pg 78 p 1-4 |
| | 13.4 | Tangent Ratio | pg 238 Clinometer | Pg 77 p 5-8 |
| | 13.5 | Sine Ratio Cosine Ratio | | Pg 78 p 5-8 |
| | | Chapter 13 Review | | |
| 10/23 – 3/30 | | Chapter 13 Test | | |
| | 8.1 | Quadrilaterals Diagonals | PP Parallelogramville | Pg 42 p 1-9 |
| | 8.2, 8.3 | Parallelogram | pg 421 Golden Ratios | Pg 43 p 2-12 even, Pg 44 p 1-8 |
| | 8.4 | Rectangles Rhombi Squares | pg 253 Investigating Quadrilaterals I | Pg 45 p 1-14 |
| | 8.5 | Trapezoids Base Base angles Median Isosceles Trapezoids | pg 256 Investigating Quadrilaterals II | Pg 46 p 1-9 |
| | | Chapter 8 Review | | |
| 11/3 – 4/8 | | Chapter 8 Test | | |
| | 10.1, 10.2 | Polygons Angle Measurements | | Pg 54 p 1-10, Pg 55 p 1-6 |
| | 1.6, 10.3 | Perimeter Composite Figures Irregular Figures | PP pg 297 Perimeter and Irregular Area | Pg 6 p 2-14 even, Pg 56 p 1-10 |
| | 10.4, 10.5 | Area of Polygons | pg 405 Real World | Pg 57 p 1-8, Pg 58 p 1-8 |
| | 16.3, 16.4 | Translations Reflections | PP TGAF | Pg 93 p 1-2, Pg 94 p 1-6 |
| | 16.5, 16.6 | Rotations Dilations | TGAF | Pg 95 p 1-6, Pg 96 p 1-8 |
| | | Chapter 10, 16 Review | | |
| 11/12 – 4/20 | | Chapter 10, 16 Test | | |
| | 12.1 | Solid Figures Polyhedrons Prism Pyramid Tetrahedron Cylinder Cones | PP pg 335 Forming Polyhedrons | Pg 67 p 1-10 |

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|--------------|------------|--|-------------------------------|--------------------------------|
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| | 12.4 | Pyramid – Lateral Area Surface Area | TGAF | Pg 70 p 1-6 |
| | 12.3 | Prism – Volume | pg 302 Volume | Pg 69 p 1-6 |
| | 12.5 | Pyramid – Volume | pg 343 Volume II | Pg 71 p 1-6 |
| | 12.6 | Sphere | | Pg 72 p 1-6 |
| | | Chapter 12 Review | pg 340 | |
| 12/1 – 5/5 | | Chapter 12 Test | | |
| | 11.1, 11.2 | Parts of a Circle | PP pg 31 Finding Pi | Pg 61 p 1-12, Pg 62 p 1-10 |
| | 11.4, 14.1 | Inscribed Angle | pg 439 Special Projects | Pg 64 p 3-9, Pg 79 p 1-9 |
| | 14.2 | Tangent | | Pg 80 p 1-5 |
| | 14.3 | Secants | | Pg 81 p 1-6 |
| | 14.6 | Equation of a Circle | | Pg 84 p 1-10 |
| | | Chapter 11, 14 Review | | |
| 12/11 – 5/18 | | Chapter 11, 14 Test | | Vocabulary Notebook Due |
| | | Semester Review | | |
| 12/16, 12/17 | | Semester Test | | |
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