

Unit 1 - Measure	43 Polygons - Part A
1 Introduction - Points, Segments, and Length	44 Geometric Probability
2 Pythagorean Theorem and Distance Formula	45 Area Under a Curve
3 Rays, Angles, and Planes	46 Pythagorean Theorem and Distance II
4 Measuring Angles and Perpendiculars	47 30-60-90 Triangles
5 Congruency - Size and Shape	48 45-45-90 Triangles
Unit 2 - Logic	49 Converse of the Pythagorean Theorem
6 Inductive Reasoning	Unit 8 - Polygons
7 Deductive Reasoning	50 Quadrilaterals
8 If-Then Statements and Truth Tables	51 Parallelograms
9 Converse	52 Rhombi
10 Inverse	53 Rectangles and Squares
11 Contrapositive	54 Polygons - Part B
12 Postulates and Proofs	55 Regular Polygons
Unit 3 - Transformations	Unit 9 - Polyhedra
13 Introduction to Transformations	56 Polyhedra
14 Reflections	57 Euler's Formula
15 Rotations	58 Regular Polyhedra
16 Translations	Unit 10 - Similarity
17 Vectors	59 Definition of Similarity
18 Dilations	60 Perimeters of Similar Figures
19 Tessellations	61 Areas of Similar Figures
20 Symmetry	62 Similarity - AA and SSS
Unit 4 - Congruent Angles	63 Similarity - SAS
21 Angle Addition Postulate	64 Trigonometric Ratios
22 Complement and Supplement	65 Applications of Trigonometry
23 Vertical Angles	Unit 11 - Circles - Part A
24 Angle Bisectors	66 Definitions - Radius, Diameter, and Chord
25 Transversals	67 Tangent Lines
26 Alternate Interior and Corresponding Angles	68 Formula for the Circumference
27 Corresponding Angles Postulate	69 Formula for the Area of a Circle
Unit 5 - Triangles - Part A	Unit 12 - Circles - Part B
28 Triangles Classified By Sides	70 Arcs
29 Triangles Classified By Angles	71 Arc Length
30 180 Degree Theorem	72 Area of a Sector
31 Exterior Angles	73 Radius and Chord Properties
32 Congruency of Triangles - Definition	74 Inscribed Angles
33 SSS and SAS	75 Secant and Tangent Line Properties
34 ASA and SAA	Unit 13 - Surface Area
Unit 6 - Triangles - Part B	76 Surface Area of Prisms
35 Hypotenuse-Leg (HL) Theorem	77 Surface Area of Pyramids
36 Isosceles Triangle Theorem	78 Surface Area of Cylinders
37 Perpendicular Bisector	79 Surface Area of Cones
38 Perpendicular Bisectors of a Triangle	80 Surface Area of Spheres
39 Angle Bisectors	Unit 14 - Volume
40 Altitudes	81 Volume of Prisms
41 Medians	82 Volume of Pyramids
Unit 7 - Area & Pythagorean Theorem	83 Volume of Cylinders
42 Area vs. Perimeter	84 Volume of Cones



85	Volume of Spheres	97	Isometric and Orthogonal Projections
86	Ratios of Surface Area and Volume	98	Triangle Centers with Technology
87	Changing Units of Measure	99	Parallel Lines with Technology
Unit 15 - Problem Solving		100	Circumference and Area of Circles with Technology
88	Problem Solving I	101	Ratios of Similar Figures with Technology
89	Problem Solving II	102	Perpendicular Bisectors with Technology
90	Problem Solving III	103	Circles and Lines that Intersect Them with Technology
Unit 16 - Bonus Lessons		104	Tessellations with Technology
91	Non-Euclidean Geometry	105	Geometric Constructions Part I
92	Coordinate Proofs	106	Geometric Constructions Part II
93	Alternative Proofs	107	Nets
94	Triangle-Inequality Theorem	108	Using Nets to Construct 3-D Geometric Figures
95	3-D Figures from 2-D Figure Transformations	109	Graph Theory
96	Intersection of a Plane with a 3-D Figure		

Copyright International Academy of Science 2009 - 2011 – All rights reserved

