VideoText Geometry: Schematic

STRUCTURE	ESSENTIAL ELEMENTS		SIMPLE CLOSED PLANE CURVES			TRIGONOMETRIC
OF GEOMETRY (Unit I)	Fundamental Terms (Unit II)	Fundamental Theorems (Unit III)	Triangles (Unit IV)	Other Polygons (Unit V)	Circles (Unit VI)	RELATIONS (only available online)
A. What is Geometry? 1 - Origin and Structure 2 - More on Things 3 - More on Operations 4 - More on Relations 5 - More on Groupings B. Scope of our Geometry 1 - Undefined Terms 2 - Simple Closed Plane Curves 3 - Polygons 4 - Solids C. Measurement 1 - Rectangles 2 - Parallelograms 3 - Triangles 4 - Trapezoids 5 - Regular Polygons 6 - Circles 7 - Prisms 8 - Pyramids 9 - Spheres D. Inductive Reasoning	A. Undefined Terms 1 - In Algebra 2 - In Geometry B. Defined Terms 1 - Good Definitions 2 - About Points 3 - About Lines 4 - About Rays 5 - About Line Segments 6 - About Angles as Sets of Points 7 - About Measurement of Angles 8 - About Pairs of Angles 9 - About Circles C. Postulates (or Axioms) 1 - Need 2 - Post.1 - Existence of Points 3 - Post.2 - Uniqueness of Lines, Planes, and Space 4 - Post.3 - One, Two, and Three Dimensions 5 - Post.4 - Separation	A. Deductive Proof 1 - Direct Proof 2 - Indirect Proof B. About Points and Lines 1 - Th. 1 - One Plane-Line & Point 2 - Th. 2 - Relationship between Three Points on a Line C. About Segments and Rays 1 - Th. 3 - Distance from the Endpoint of a Ray 2 - Th. 4 - Midpoint of a Segment D. About Two Lines 1 - Th. 5 - One Plane containing Two Intersecting Lines 2 - Th. 6 - Perpendicular through a Point on a Line E. About Angles (Part 1) 1 - Th. 7 - Unique Angle formed by Two given Rays	A. Basic Definitions 1 - Triangle Parts 2 - Triangle Types B. Basic Theorems 1 - Th.25 - Sum of the Angles 2 - Th.26 - Exterior Angle C. Similarity (Part 1) 1 - Ratio and Proportion 2 - Special Properties 3 - Th.27 - Perimeters of Similar Polygons D. Similarity (Part 2) 1 - Post.12 - Triangle Similarity 2 - Th.28 - Side Splitter 3 - Th.29 - Alt. (Sim. Triangles) 4 - Th.30 - Alt. (to Hypotenuse) 5 - Th.31 - Pythagoras 6 - Application (3-Dimensions) E. Congruence (Part 1)	A. Properties of Polygons 1 - Basic Terms 2 - Parallelograms 3 - Special Parallelograms 4 - Trapezoids 5 - Kites 6 - Midsegments 7 - General Polygons B. Areas of Polygons 1 - Post. 14 - Area 2 - Triangles 3 - Parallelograms 4 - Trapezoids 5 - Regular Polygons C. Applications 1 - Using Areas in Proofs 2 - Schedules	A. Fundamental Terms 1 – Lines and Segments 2 – Arcs and Angles 3 – Circle Relationships B. Angle and Arc Relationships 1 – Th.65-66 – Central Angles and Intercepted Arcs 2 – Th.67 – Measure of an Inscribed Angle 3 – Th.68 – Angle Formed Inside by a Secant and a Tangent 4 – Th.69-70 – Angle Formed by two Secants 5 – Th.71-72 – Angle Formed Outside by Secant and Tangent or 2 Tangents C. Line and Segment Relationships 1 – Th.73–Diameter Perpendicular to a Chord	A. Basic Concepts 1 - Measuring Trig. Angles 2 - Applications of Similarity 3 - Trigonometric Functions B. Functions of General Angles 1 - Fundamental Relations 2 - Values of Trig. Functions C. Applications 1 - Solving Right Triangles 2 - Laws of Sines and Cosines 3 - Solving Any Triangle 4 - Areas of Triangles 5 - Inverse Functions D. Circular Functions 1 - Radian Measure 2 - Circular Functions 4 - Transformations of Functions E. Trigonometric Identities
1 - General Nature 2 - Applications in Math E. Deductive Reasoning 1 - General Nature 2 - Applications in Math F. Logic 1 - Simple Statements 2 - Conditionals 3 - Negating Conditionals 4 - Fallacies UNIT TEST I	6 - Post.5 - Line-Plane Intersection 7 - Post.6 - Ruler 8 - Post.7 - Protractor 9 - Post.8 - Circle 10 - Post.9 - Uniqueness of Parallel Lines 11 - Post.10 - Uniqueness of Perpendicular Lines	2 - Th. 8 - Bisector of an Angle F. About Angles (Part 2) 1 - Th. 9 - Adj. Ang. with Exterior Sides Perpendicular 2 - Th.10 - Supp. Angles formed by Opposite Rays 3 - Th.11 - Rt. Angles Congruent 4 - Th.12 - St. Angles Congruent 4 - Th.13 - Angles Comp. to Congruent Angles 2 - Th.14 - Angles Supp. to Congruent Angles 2 - Th.14 - Angles Supp. to Congruent Angles 3 - Th.15 - Vert. Angles Cong. H. About Parallel Lines 1 - Post.11 - Corr. Angles Cong. 2 - Th.16 - Alt. Int. Angles Supp. 4 - Th.18 - Trans. Perp. to Parallel 5 - Th.19 - Corr. Angles - Parallel 5 - Th.19 - Corr. Angles - Parallel 6 - Th.20 - Alt. Int. Ang Parallel 7 - Th.21 - Int. Ang. SuppParallel 8 - Th.22 - Perp. Trans Parallel 9 - Th.23 - Lines Parallel to Third 10 - Th.24 - Parallel Planes	1 - Definition 2 - Post.13 - Triangle Congruence 3 - Cong. Post. Corollaries F. Congruence (Part 2) 1 - Overlapping Triangles 2 - Using CPCTC 3 - Th.32 - Two Cong. to Third 4 - Th.33 - Cong. Sides give Cong. Opp. Angles 5 - Th.34 - Cong. Angles give Cong. Opp. Sides 6 - Th.35 - Ray Bissecting Angle 7 - Th.36 - Pythagoras Converse G. Congruence (Part 3) 1 - Th.37 - Ext. Ang. Greater than Remote Int. 2 - Th.38 - Sides not Congruent Opp. Ang. not Cong. 3 - Th.39 - Ang. not Congruent Opp. Sides not Cond. 4 - Th.40 - Sum of Two Sides Greater than Third		2 - Th.74-75 - Chord as a Perpendicular Bisector of Another Chord 3 - Th.76 - Measures of Two Intersecting Chords 4 - Th.77-78 - Measures of Two Secant Segments or 1 Secant Segment and 1 Tangent Segment 5 - Th.79 - Tangent Perpendicular to Diameter 6 - Th.80 - Congruent Tangent Segments 7 - Th.81-82 - Congruent Chords and Congruent Arcs D. Concurrency 1 - Th.83 - A Triangle is Cyclic 2 - Th.84 - If Opposite Angles of a Quadrilateral are Supplementary, then Quadrilateral is cyclic	1 - Fundamental Identities 2 - Angle Sum Identities 3 - Double and Half-Ang. Identities 4 - Tangent Identities 5 - Trigonometric Equations F. Trigonometric Vectors 1 - Operations 2 - In the Rectangular Plane 3 - In the Polar Plane 4 - In the Complex Plane 5 - De Moivre's Theorem TRIG UNIT TEST
MODULE A	MODULE B	MODULE C	MODULE D	MOD	DULE E	(only available online)