

Table of Contents

GEOMETRY CLASSIFIED NOMENCLATURE

OUTLINE.....	2
GEOMETRY CLASSIFIED NOMENCLATURE.....	4
GEOMETRY OVERVIEW.....	16
GEOMETRY MATRIX OVERVIEW.....	18

GEOMETRY CABINET

INTRODUCTION.....	21
POLYGONS.....	29
QUADRILATERALS.....	33
CURVED FIGURES	36
TRIANGLES.....	38
CONSTRUCTIVE TRIANGLES RECTANGLE BOX - SERIES 1.....	46
BLUE RECTANGLE BOX - SERIES 1.....	49
BLUE SCALENE RIGHT TRIANGLES - SERIES 1.....	54
DRAWINGS OF STARS.....	57
DRAWINGS OF DIAPHRAGMS.....	59

GEOMETRY CLASSIFIED NOMENCLATURE

INTRODUCTION.....	60
GEOMETRY STICK BOX.....	63
GEOMETRIC SOLIDS.....	66
BASIC CONCEPTS	
SOLID.....	68
PLANE.....	70
LINE AND POINT.....	71
POINT, LINE, PLANE, AND SOLID.....	72
GOLDEN BEADS.....	73
NOMENCLATURE CARDS.....	75

STUDY OF THE LINE

GEOMETRY CABINET.....77

NOMENCLATURE B1: 5 - 6.....79

PARTS OF A LINE (B2: 7 - 10).....81

RELATIONSHIP OF LINES TO THE EARTH.....85

RELATIONSHIP OF LINES TO THE EARTH.....87

RELATIONSHIP BETWEEN TWO LINES.....91

PARALLEL LINES.....97

THE PERPENDICULAR BISECTOR.....103

THE RELATIONSHIP OF THREE STRAIGHT LINES.....105

STUDY OF THE ANGLE

PARTS OF AN ANGLE.....109

TYPES OF ANGLES.....112

PRINCIPLE ANGLES.....116

RELATIONSHIP BETWEEN TWO ANGLES ADJACENT
AND VERTICAL ANGLES.....118

VERTICAL ANGLES ARE EQUAL.....121

VERTICAL ANGLES ARE EQUAL.....123

TYPES OF ADJACENT ANGLES.....124

ANGLES FORMED BY TWO STRAIGHT LINES AND A TRANSVERSAL.....127

ANGLES FORMED BY TWO LINES CUT BY A TRANSVERSAL.....134

BISECTOR OF AN ANGLE.....137

STUDY OF FIGURES

CLOSED FIGURES.....139

CLOSED FIGURES - POLYGONS.....141

CLOSED FIGURES - CIRCLE, ELLIPSE, OVAL.....144

STUDY OF THE TRIANGLE

PARTS OF THE TRIANGLE.....	146
ALTITUDE.....	148
ALTITUDES OF THE GEOMETRY CABINET.....	152
MEDIAN OF A TRIANGLE.....	153
AXIS OF A TRIANGLE.....	155
ORTHOCENTER OF A TRIANGLE.....	157
CENTROID OF A TRIANGLE.....	159
CIRCUMCENTER OF A TRIANGLE.....	161
INCENTER OF A TRIANGLE.....	164
SIDES OF A TRIANGLE.....	168
ANGLES OF A TRIANGLE.....	170
SIDES AND ANGLES OF A TRIANGLE.....	174
ACUTE TRIANGLES.....	176
OBTUSE TRIANGLES.....	179
RIGHT TRIANGLES.....	181
LENGTHS OF SIDES OF TRIANGLES.....	183
CONSTRUCTION OF ISOSCELES TRIANGLES.....	186
PARTS OF RIGHT TRIANGLES.....	188
MEASURING ANGLES - THE SUMERIANS.....	190
MEASURING ANGLES	192
MEASUREMENT OF ANGLES OF THE FRACTION INSETS.....	194
MEASUREMENT OF OTHER FIGURES.....	197
PRESENTATION OF THE REGULAR PROTRACTOR.....	198
CONSTRUCTING ANGLES WITH THE PROTRACTOR.....	199
OPERATIONS WITH ANGLES.....	203

STUDY OF THE QUADRILATERAL

INTRODUCTION.....	204
CONSTRUCTIONS OF QUADRILATERALS.....	205
INTRODUCTION TO PARTS OF THE QUADRILATERAL.....	210
PARTS OF THE QUADRILATERAL.....	211
PARTS OF A TRAPEZOID.....	213
PARTS OF A PARALLELOGRAM.....	215
PARTS OF A RECTANGLE.....	217
PARTS OF A RHOMBUS.....	218
PARTS OF A SQUARE.....	220
PARTS AND TYPES OF TRAPEZOIDS.....	223
STUDY OF THE POLYGON	
TYPES OF POLYGONS.....	226
EQUILATERAL TRIANGLE AND SQUARE.....	229
PARTS OF THE REGULAR POLYGON.....	231
IRREGULAR POLYGONS TO REGULAR POLYGONS.....	238
REGULAR POLYGONS - DIAGONALS.....	240
STUDY OF THE CIRCLE	
PARTS OF A CIRCLE.....	242
RELATIONSHIP BETWEEN THE CIRCLE AND A STRAIGHT LINE.....	248
RELATIONSHIP BETWEEN TWO CIRCLES.....	250
APPENDIX A.....	257
APPENDIX B.....	258
APPENDIX C - GEOMETRY LABELS.....	259
MATERIALS LIST.....	264
MATERIAL SOURCES.....	280
ADDITIONAL TITLES AVAILABLE.....	284