

**SUBJECT: Technical Drawing 1**

<b>Time Frame</b>	<b>Content Topic</b>	<b>Skills/Key Points/Objectives</b>	<b>Assessments</b>	<b>Proficiency Outcomes</b>
August	Why study drafting	What is drafting Drafting as a communication tool	Modeling Cooperative Learning	Reading 10-1, 10-5, 10-6
	Careers in Drafting Evolution of drafting	Job opportunities Past/Present/Future Technology impacts on drafting	Student teaching Checklist Observation	Writing 10-A, 10-B, 10-C, 10-G, 10-H, 10-G, 10-L, 10-P,
September	Sketching	Identify tools used in sketching Sketching techniques Importance of sketching How to enlarge/reduce drawing	Performance Events Portfolio Development Lab Activities Discussion	10-J, 10-R, 10-Q Math 10-1A, 10-1-B, 10-C, 10-2-A, 10-3-A, 10-3-B,
October	Alphabet of Lines	Identify alphabet of lines Correctly construct 10 various line types Correct application of line type	Questioning Computer software Digital camera	10-3-C, 10-3-D, 10-4-A, 10-4-B, 10-4-C, 10-18-A, 10-19-B
	Drafting Equipment	Use drafting equipment safely Identify common drafting tools Identify various scales Demonstrate correct application of equipment Construct Horizontal/Vertical lines	Tests Worksheets	
	Measuring	Measuring 1/16" increments Measure full scale Measure half scale Measure 1/4 scale Measure lines with various scales Draw lines to given length		
November	Geometric Construction	Construct various triangles Bisect lines Bisect angles Bisect arcs Draw arcs tangent to lines Draw arcs tangent to arcs Geometrically construct hexagons Geometrically construct hexagons Geometrically construct hexagons		
December	Working Drawings	Identify single view drawings Identify notes on single views Correct placements of notes Identify dimensions on single views Draw parallel lines Draw perpendicular lines Draw horizontal/vertical lines		

Center drawings on paper

January	Lettering	Identify the various styles Correctly freehand lettering style Use lettering templates Importance of proper lettering
	Multi-View drawings	Identify different view of an object Identify height/width/depth Correctly construct multi-view Determine necessary views Determine dominate view Center drawing on paper Solve orthographic projection problem
February	Dimensioning	Understanding of dimensioning List types of dimensioning styles Use and location of dimensions Correctly dimension a drawing Maintain a clean drawing
March	Sectional Views	Identify sectional view drawings What part of object is sectioned Identify a cutting plane line Construct sectional views
	Auxiliary Views	Purpose for auxiliary views Plot a curve on an auxiliary view Solve auxiliary view problems
April	Pictorial Views	List uses for pictorial views Advantages of pictorial views Concept of isometric drawings Construct isometric drawings Solve isometric projection variables Concept of oblique drawings Construct oblique drawing Solve for oblique variables
May	Pattern Development	Identify uses of pattern development Construct pattern development drawings Solve pattern development variables