

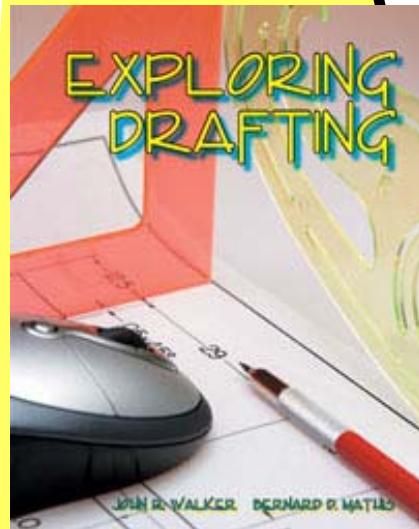


**Goodheart-Willcox Publisher**

**Correlations to the Alabama Career Cluster  
Curriculum**

**Career and Technical Education - Comprehensive  
Course: Introduction to Drafting Design  
Grades 9-12**

*Exploring Drafting © 2007  
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<b>CONTENT STANDARD</b>	<b>CORRELATING PAGE NUMBERS</b>
<b>Orientation</b>	
Students will:	
Relate the importance of drafting design technology in today's technological work force.	18–24, 28–39
<b>Safety</b>	
Demonstrate the safe handling of drafting design tools according to classroom and environmental practices, procedures, and regulations.	68–89
<b>Applied Mathematics for Drafting</b>	
Demonstrate mathematic skills related to drafting design, including basic fractions, scale reading, and conversion of customary to metric and metric to customary measurements.	80–82, 95–100, 166, 523–524
Solving higher-order mathematics applications	106, 294, 527–528
Example: Calculating thread depth and pitch	435–436
Calculating architectural computations	468
Examples: Area, rise and run	465, 468
<b>Drafting Instruments and Techniques</b>	
Demonstrate use of drawing media and drafting instruments.	68–89
Examples: Architectural scales, graphite, lead holders	78–82
Utilizing computer software for drafting applications	152–172
Reproducing drafting originals	358–366
Examples: Print, plot, blueprint or photocopy	358–366

<b>Lettering and Drawing Techniques</b>	
Demonstrate drafting techniques for freehand sketching, lettering, geometric figures, and the alphabet of lines to create a drawing.	42–65, 92–95
<b>Multi-View Drawings</b>	
Construct basic multi-view two-dimensional drawings, including visualizing principle views, creating third-angle projection, selecting proper drawing scale, and organizing layout of primary views.	192–217
<b>Basic Dimensioning</b>	
Apply dimensions and notes to multi-view drawings, utilizing American National Standards Institute (ANSI) dimensioning standards and decimal, metric, or dual dimensioning.	220–251
<b>Fundamentals of Computer-Aided Drafting</b>	
Utilize CAD software to generate a multi-view drawing using appropriate file management techniques, basic drawing commands, and basic dimensioning techniques.	152–172, 210
Examples: File management techniques—create, set up, and save files	163–164
basic drawing commands—line, ellipse, circle, scale	164–166
basic dimensioning techniques—linear, angular	243–245
Utilizing CAD software and computer to print a multi-view drawing	358–360