Learning Goals and Scales 2015-2016

Unit: Mechanical Drawing

Learning Goals: In this unit:

- 1. Students will be able to use common drafting tools to produce technical images.
- 2. Students will demonstrate knowledge/skills with Orthographic Projection.

Rigorous Learning Goal/Scale 1

Course:	Engineering – Mechanical Drawing
Score 4 Additional Success with the complex content and concepts—inferences, novel applications	In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught. • Student demonstrates knowledge/skills with use of tools and can combine independently decide how to achieve various layouts/applications. Student makes no major errors or omissions regarding the score 4 content
Score 3	TARGET LEARNING GOAL: The student will
Mastery of complex content and concepts of learning goal	 be able to use common drafting tools to produce a variety of basic technical images. Student makes no major errors or omissions regarding the score 3 content
Score 2	The student will recognize or recall specific vocabulary or basic content,
Success with simpler content—vocabulary, foundational skills	 • parallel straight edge, triangles, leads, compass, line weight The student will perform basic skills or process, such as: • Basic math operations, Read a ruler/measure, draftsmanship, alphabet of lines, order of process, Layout Student makes no major errors or omissions regarding the score 2 content
Score 1 Partial success with help	With help, student achieves partial success at score 2 content and/or score 3 content
Score 0 No success even with help	Even with help, no success

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Rigorous Learning Goal/Scale 2

Course:	Engineering – Mechanical Drawing
Score 4	In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught.
Additional Success with the complex content and concepts—inferences, novel applications	Student demonstrates knowledge visualizing, drawing and centering orthographic views and can determine which views are necessary to use in a plan.
	Student makes no major errors or omissions regarding the score 4 content TARGET LEARNING GOAL: The student will
Score 3	
Mastery of complex content and concepts of learning goal	 be able to read/produce 2d orthographic views of 3d objects. Student makes no major errors or omissions regarding the score 3 content
Score 2	The student will recognize or recall specific vocabulary or basic content, such as:
Success with simpler content—vocabulary,	• parallel straight edge, triangles, leads, compass, line weight The student will perform basic skills or process, such as:
foundational skills	Basic math operations, Read a ruler/measure, draftsmanship, alphabet of lines, order of process, Layout Student makes no major errors or omissions regarding the score 2 content
Score 1	With help, student achieves partial success at score 2 content and/or
Partial success with help	score 3 content
Score 0 No success even with help	Even with help, no success