

Learning Goals and Scales
2014-2015

Unit: Measurement/Sketching

Learning Goals:

In this unit:

1. *Students will be able to read basic measurements.*
2. *Students will be able to accurately produce a variety of freehand sketches of various objects.*

Rigorous Learning Goal/Scale 1

Course:	Engineering – Sketching/measurement
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. <ul style="list-style-type: none"> • <i>Student demonstrates knowledge of measurement and can use the measurements to execute proper centering of Orthographic Views in a work area.</i> Student makes no major errors or omissions regarding the score 4 content
Score 3 Mastery of complex content and concepts of learning goal	TARGET LEARNING GOAL: The student will <ul style="list-style-type: none"> • <i>be able to read basic measurements to understand/convey ideas.</i> Student makes no major errors or omissions regarding the score 3 content
Score 2 Success with simpler content—vocabulary, foundational skills	The student will recognize or recall specific vocabulary or basic content, such as: <ul style="list-style-type: none"> • <i>fraction, decimal, layout, line, arc/circle, 2D-3D, radius/dia., Working Drawing, Orthographic Projection</i> The student will perform basic skills or process, such as: <ul style="list-style-type: none"> • Basic math operations • Read a ruler/measure • Sketch lines/arcs & images accurately 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 – Sketching/measurement
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. <ul style="list-style-type: none"> <i>Student demonstrates knowledge/skills with measurement and can use the measurements to sketch the Orthographic Views centered in a work area.</i> Student makes no major errors or omissions regarding the score 4 content
Score 3 Mastery of complex content and concepts of learning goal	TARGET LEARNING GOAL: The student will <ul style="list-style-type: none"> <i>be able to accurately produce a variety of freehand sketches of various objects in Orthographic form.</i> Student makes no major errors or omissions regarding the score 3 content
Score 2 Success with simpler content—vocabulary, foundational skills	The student will recognize or recall specific vocabulary or basic content, such as: <ul style="list-style-type: none"> <i>fraction, decimal, layout, line, arc/circle, 2D-3D, radius/dia., Working Drawing, Orthographics Projection</i> The student will perform basic skills or process, such as: <ul style="list-style-type: none"> Basic math operations Read a ruler/measure Sketch lines/arcs & images accurately Visualization 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