

Learning Goals and Scales
2015-2016

Unit: Fundamentals Review

Learning Goals:

In this unit:

1. *Students will demonstrate knowledge/skills with Orthographic Projection.*
2. *Students will be able to operate CAD to produce various Working Drawings.*

Rigorous Learning Goal/Scale 1

Course:	Engineering – Fundamentals Review
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 visualizing and drawing all 6 orthographic views and can determine which views are necessary to use in a plan.</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/produce 2d orthographic views of 3d objects.</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>layout, 2D-3D, 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, CAD techniques Making Layers, Setting Dimensions, Printing plans 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 – Fundamentals Review
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 CAD and is able to present the knowledge and skills to his/her peers to help solve problems/assess and edit their work.</i> <p>Student makes no major errors or omissions regarding the score 4 content</p>
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 operate CAD to produce various review Working Drawings.</i> <p>Student makes no major errors or omissions regarding the score 3 content</p>
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>layout, line, 2D-3D, Working Drawing, Orthographic Projection Offset, Mirror, Array, Rotate, Grips, Extend, Trim</i> <p>The student will perform basic skills or process, such as:</p> <ul style="list-style-type: none"> Basic math operations, Read a ruler/measure, CAD techniques Making Layers, Setting Dimensions, Printing plans <p>Student makes no major errors or omissions regarding the score 2 content</p>
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