

Learning Goals and Scales  
2014-2015

Unit: Isometric Pictorial Drawing

Learning Goals:

In this unit:

1. Students will learn/understand vocabulary/techniques associated with drawing isometric pictorials
2. Students will be able to draw various isometric pictorials form Orthographic Projection views.

### Rigorous Learning Goal/Scale 1

<b>Course:</b>	<b>Engineering Drawing – Isometrics Unit</b>
<b>Score 4</b>  Additional Success with the complex content and concepts—inferences, novel applications	<b>In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught.</b> <ul style="list-style-type: none"> <li>• <i>Student is able to define/explain all features of pictorial to others including the relationship of the views to the surfaces.</i></li> </ul> <b>Student makes no major errors or omissions regarding the score 4 content</b>
<b>Score 3</b>  Mastery of complex content and concepts of learning goal	<b>TARGET LEARNING GOAL: The student will</b> <ul style="list-style-type: none"> <li>• <b>Learn/understand vocabulary/techniques associated with drawing isometric pictorials</b></li> </ul> <b>Student makes no major errors or omissions regarding the score 3 content</b>
<b>Score 2</b>  Success with simpler content—vocabulary, foundational skills	<b>The student will recognize or recall specific vocabulary or basic content, such as:</b> <b>Isometric line, non-isometric line, ellipse, isoplane, snap/style, tangent</b> <b>The student will perform basic skills or process, such as:</b> <ul style="list-style-type: none"> <li>• <b>Using CAD – snap style, ellipse, polar cords., Isom. layout</b></li> <li>• <b>measurement application</b></li> <li>• <b>orthographic visualization/interpretation</b></li> </ul> <b>Student makes no major errors or omissions regarding the score 2 content</b>
<b>Score 1</b>  Partial success with help	<b>With help, student achieves partial success at score 2 content and/or score 3 content</b>
<b>Score 0</b>  No success even with help	<b>Even with help, no success</b>

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**Rigorous Learning Goal/Scale 2**

<b>Course:</b>	<b>Engineering Drawing – Isometrics Unit</b>
<b>Score 4</b> Additional Success with the complex content and concepts—inferences, novel applications	<b>In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught.</b> <ul style="list-style-type: none"> <li><i>Student is able to explain produce Isometric Pictorials, can explain the purpose for Isometric Pictorials and can illustrate the relationship of the views and planes using related vocabulary.</i></li> </ul> <b>Student makes no major errors or omissions regarding the score 4 content</b>
<b>Score 3</b> Mastery of complex content and concepts of learning goal	<b>TARGET LEARNING GOAL: The student will</b> <ul style="list-style-type: none"> <li><b>be able to draw various isometric pictorials form Orthographic Projection views.</b></li> </ul> <b>Student makes no major errors or omissions regarding the score 3 content</b>
<b>Score 2</b> Success with simpler content—vocabulary, foundational skills	<b>The student will recognize or recall specific vocabulary or basic content, such as:</b> <ul style="list-style-type: none"> <li><b>Isometric line, non-isometric line, ellipse, isoplane, snap/style, tangent</b></li> </ul> <b>The student will perform basic skills or process, such as:</b> <ul style="list-style-type: none"> <li><b>Using CAD – snap style, ellipse, polar cords., Isom. layout</b></li> <li><b>measurement application</b></li> <li><b>orthographic visualization/interpretation</b></li> </ul> <b>Student makes no major errors or omissions regarding the score 2 content</b>
<b>Score 1</b> Partial success with help	<b>With help, student achieves partial success at score 2 content and/or score 3 content</b>
<b>Score 0</b> No success even with help	<b>Even with help, no success</b>