

Learning Goals and Scales
2015-2016

Unit: Dimensioning

Learning Goals:

In this unit:

1. Students will use common drafting tools to produce/dimension a variety of basic technical drawings.
2. Students will understand/apply Basic Rules to Dimensioning needed for providing necessary information to build a part described on an Orthographic Plan.

Rigorous Learning Goal/Scale 1

Course:	Engineering – Dimensioning
<p>Score 4</p> <p>Additional Success with the complex content and concepts—inferences, novel applications</p>	<p>In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught.</p> <ul style="list-style-type: none"> • <i>Student demonstrates knowledge/skills with use of tools and can explain/teach others the basic rules being applied.</i> <p>Student makes no major errors or omissions regarding the score 4 content</p>
<p>Score 3</p> <p>Mastery of complex content and concepts of learning goal</p>	<p>TARGET LEARNING GOAL: The student will</p> <ul style="list-style-type: none"> • <i>be able to use common drafting tools to produce and dimension a variety of basic technical drawings..</i> <p>Student makes no major errors or omissions regarding the score 3 content</p>
<p>Score 2</p> <p>Success with simpler content—vocabulary, foundational skills</p>	<p>The student will recognize or recall specific vocabulary or basic content, such as:</p> <ul style="list-style-type: none"> • <i>dimension line, extension line, leader, dimension arrow</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, draftsmanship, alphabet of lines, order of process, Layout, apply rules <p>Student makes no major errors or omissions regarding the score 2 content</p>
<p>Score 1</p> <p>Partial success with help</p>	<p>With help, student achieves partial success at score 2 content and/or score 3 content</p>
<p>Score 0</p> <p>No success even with help</p>	<p>Even with help, no success</p>

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Rigorous Learning Goal/Scale 2

Course:	Engineering – Dimensioning
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 can independently provide details/dimensions needed on a plan to build a part and can explain why the dimensions are placed specifically to others.</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 understand/apply Basic Rules to Dimensioning needed for providing necessary information to build a part described on an Orthographic Plan.</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>dimension line, extension line, leader, dimension arrow</i> The student will perform basic skills or process, such as: <ul style="list-style-type: none"> Basic math operations, Read a ruler/measure, draftsmanship, alphabet of lines, order of process, Layout, apply rules <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