Unit: Drawing and Measurement

Learning Goals:

In this unit:

1. ***Students will be able to accurately read a ruler.***
2. ***Students will be able to produce and understand engineering drawings.***

**Rigorous Learning Goal/Scale 1**

|  |  |
| --- | --- |
| **Course:**  | **Woodworking 1 – Drawing and Measurement Unit** |
| **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.*** ***Choose the most effective measuring tool for the task at hand.***
* ***Add, subtract, and divide fractions.***

**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** * ***Be able to read and utilize a ruler when working on classroom projects.***
* ***Read and use fractions down to the 1/16th inch.***

**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:*** ***Fractions down to the 1/8th inch increments.***

**The student will perform basic skills or process, such as:** * ***Use measuring devices to layout rough measurements on lumber.***

**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** |

**Rigorous Learning Goal/Scale 2**

|  |  |
| --- | --- |
| **Course:**  | **Woodworking 1 – Drawing and Measurement Unit** |
| **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 can produce a set of engineering drawings for a part or project that has been designed by the student, not a previously made part.***

**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** * ***be able to draw a set of engineering drawings that includes a top, front, and side view with all necessary measurements.***

**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:*** ***Three views, hidden lines, cut list, dimension lines***

**The student will perform basic skills or process, such as:** * ***Basic math operations***
* ***Read a ruler***
* ***Draw a three view drawing of simple parts***

**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** |