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**

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| **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**

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| **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** |