

Lesson Title: Measurement Conversion

Lesson Duration: 3-4 hours

Industry Competencies: Students will:

- perform unit conversions between the U.S. and metric systems
- use dimensional analysis to ensure quantities are reported in appropriate units.

Specific Objectives:

- Students will convert unit measures between the U.S. and metric systems for linear, area, and weight/mass measurements.

Assessment(s):

The following rubrics will be used to assess student performance in this lesson.

Competency or Task	Highly Competent	Competent	Needs Improvement
Perform conversions of linear measurements using the U.S. and metric system.	All linear measurement conversions are accurate with a high level of precision.	All linear measurement conversions are accurate, but some required re-checking to ensure accuracy.	One or more linear measurement conversions are inaccurate and little attempt to re-check accuracy.
Perform conversions of area measurements using the U.S. and metric systems.	All area measurement conversions are accurate with a high level of precision.	All area measurement conversions are accurate, but some required re-checking to ensure accuracy.	One or more area measurement conversions are inaccurate and little attempt to re-check accuracy.
Perform conversions of weight/mass measurements using the U.S. and metric systems.	All weight/mass conversions are accurate with a high level of precision.	All weight/mass conversions are accurate, but some required re-checking to ensure accuracy.	One or more area measurement conversions are inaccurate and little attempt to re-check accuracy.

Competency or Task	Highly Competent	Competent	Needs Improvement
Write clearly and effectively on a specific topic.	Topic is fully addressed with highly effective supporting information with no errors in grammar, punctuation.	Topic is fully addressed with adequate supporting information and no errors in grammar, punctuation, or spelling.	Topic is not addressed or poorly supported with one or more errors in grammar, spelling, and punctuation.