

# Measurement Math

## Curriculum Overview

### Designed for:

Middle and junior high students, High school students, Post-secondary students

### Length:

This 7-hour curriculum is comprised of seven lessons. With supplemental materials this curriculum can be adapted to a longer block of time.

### Goal:

To help participants learn proper measurement skills through a variety of activities, online lessons, workbooks, and use of the Measurement Math manipulatives.

### Synopsis:

Introduce students to more than 250 different measurements with the manipulatives and lessons in the Measurement Math Training Kit. Use these manipulatives with various rulers, including tape measures and calipers. Train and test their measurement math skills through a comprehensive curriculum, student workbooks, and hands-on activities. Additionally, students have access to interactive online lessons to reinforce knowledge.

### Curriculum Components:

- Teacher's guide – Complete lessons, including detailed steps of activities, time and materials needed, student handouts and instructor information to teach the lesson
- Student materials - Online lessons and workbooks
- Assessment tools
- Presentation slides

### Learning Objectives:

Lesson	Title
One	<b>Metric and Standard Readings</b> <ul style="list-style-type: none"> <li>• Understand metric and standard reading</li> <li>• Convert measurements from metric to standard</li> <li>• Convert measurements from standard to metric</li> </ul>
Two	<b>How to Read a Ruler and Tape Measure</b> <ul style="list-style-type: none"> <li>• Identify standard units of measure</li> <li>• Read fractions on a standard ruler and tape measure</li> <li>• Read a metric ruler and tape measure</li> <li>• Convert metric into standard and vice versa</li> </ul>
Three	<b>How to Read and Use a Caliper</b> <ul style="list-style-type: none"> <li>• Identify different types of calipers</li> <li>• Read a caliper</li> <li>• Measure interior/exterior/depth measurements using a caliper</li> <li>• Convert metric readings on a caliper to standard and vice versa</li> </ul>

Lesson	Title
Four	<p><b>Decimals</b></p> <ul style="list-style-type: none"> <li>• Read and write decimals</li> <li>• Use decimals</li> <li>• Identify place value</li> <li>• Add/subtract/multiply and divide decimals</li> </ul>
Five	<p><b>Conversions</b></p> <ul style="list-style-type: none"> <li>• Convert fractions to decimals</li> <li>• Convert decimals to fractions</li> <li>• Compare decimals and fractions</li> <li>• Solve word problems using decimals and fractions</li> </ul>
Six	<p><b>Measurements Using a Tape Rule and Tape Measure</b></p> <ul style="list-style-type: none"> <li>• Take accurate standard and metric measurements using a ruler</li> <li>• Add and subtract fractions</li> <li>• Combine measurements</li> <li>• Solve word problems using measurement skills</li> </ul>
Seven	<p><b>Measurements Using a Caliper</b></p> <ul style="list-style-type: none"> <li>• Take accurate measurements using a caliper.</li> <li>• Take metric measurements using a caliper.</li> <li>• Add and subtract decimals.</li> <li>• Combine two measurements together.</li> <li>• Solve word problems involving the use of a caliper.</li> </ul>