

# Unit 10 Chapter 10 Convert Units of Measure

Content Area: **Mathematics**  
Course(s): **Math 5**  
Time Period: **June**  
Length: **MP - 4**  
Status: **Published**

## Unit Summary

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In Unit 10, students will learn to convert like measurements within a given measurement system and use these conversions in solving multistep, real-world problems. Students also learn to convert units of time to solve elapsed time problems.

## Student Learning Objectives

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Students will learn to:

- compare, contrast, and convert customary units of length.
- compare, contrast, and convert customary units of capacity.
- compare, contrast, and convert customary units of weight.
- convert measurements units to solve multi-step problems.
- compare, contrast, and convert metric measurements.
- solve problems about customary and metric conversions using the strategy *make a table*.
- convert units of time to solve elapsed time problems.

## Standards

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MA.5.MD.A.1	Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.
TECH.8.1.5.A.1	Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.
TECH.8.1.5.A.CS2	Select and use applications effectively and productively.

## Essential Questions

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How can you compare and convert customary units of length?  
How can you compare and convert customary units of capacity?  
How can you compare and convert customary units of weight?  
How can you solve multistep problems that include measurement conversions?  
How can you compare and convert metric units?  
How can you use the strategy *make a table* to help solve problems about customary and metric conversions?  
How can you solve elapsed time problems by converting units of time?

## Enduring Understandings

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Students will understand that:

- measurement is not just a math skill but an everyday life skill.
- when converting between units of measurement, we use multiplication to change a larger unit to a smaller unit and division to change a smaller unit to a larger unit.
- metric measurements are based in a powers of ten system.
- some real world problems require multiple steps in order to be solved.
- when calculating elapsed time, multiplication or division and a relationship of time (like 1 hour = 60 minutes) can be used and then add or subtract units of time.

## Application

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Students will independently use their learning to:

- compare, contrast, and convert customary units of length.
- compare, contrast, and convert customary units of capacity.
- compare, contrast, and convert customary units of weight.
- convert measurements units to solve multi-step problems.
- compare, contrast, and convert metric measurements.
- solve problems about customary and metric conversions using the strategy *make a table*.
- convert units of time to solve elapsed time problems.

## Resources

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GoMath text book  
Interactive Notebook  
Google Classroom  
Teacher created study guides  
Teacher created classroom reviews  
Think Central website  
Xtramath  
MobyMax