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Unit 3, Lesson 1

# Anchoring Units of Measurement

Let’s see how big different things are.

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## 1.1Estimating Volume

Estimate the volume of the tiny salt shaker.



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## 1.2What Do They Measure?

Write each unit in the appropriate column based on whether it measures length, volume, or weight or mass.

centimeter

cup

foot

gallon

gram

inch

kilogram

kilometer

liter

meter

mile

milliliter

millimeter

ounce

pound

quart

ton

yard

| length | volume | weight or mass |
| --- | --- | --- |
|  |  |  |

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## 1.3Cutting String

Your teacher will assign you one of the following lengths:

1 centimeter, 1 foot, 1 inch, 1 meter, or 1 yard.

Estimate and cut a piece of string as close to your assigned length as you can without using a measurement tool.

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## 1.4Card Sort: Measurement Benchmarks

Your teacher will give you a set of cards, each with a picture of an object and a letter in the top right corner. Use the graphic organizers to sort the cards with the same letter.

1. Match each picture card that has the letter “L” to a unit of length that is closest to the length of the object.
2. Match each picture card that has the letter “V” to a unit of volume that is closest to the volume of the object.
3. Match each picture card that has the letter “WM” to a unit of weight or mass that is closest to the weight or mass of the object.

## Lesson 1 Summary

We can use everyday objects to estimate standard units of measurement. Here are some examples.

| unit of length | is about . . . |
| --- | --- |
| 1 millimeter | the thickness of a dime |
| 1 centimeter | the width of a pinky finger |
| 1 inch | the length from the tip of your thumb to the first knuckle |
| 1 foot | the length of a football |
| 1 yard | the length of a baseball bat |
| 1 meter | the length of a baseball bat and ball |
| 1 kilometer | the distance someone walks in 10 minutes |
| 1 mile | the distance someone runs in 10 minutes |

| unit of volume | is about . . . |
| --- | --- |
| 1 milliliter | the volume of a eyedropper |
| 1 cup | the volume of a school milk carton |
| 1 quart | the volume of a large bottle of sports drink |
| 1 liter | the volume of a reusable water bottle |
| 1 gallon | the volume of a large milk jug |

| unit of weight or mass | is about . . . |
| --- | --- |
| 1 gram | the mass of a raisin |
| 1 ounce | the weight of a slice of bread |
| 1 pound | the weight of a loaf of bread |
| 1 kilogram | the mass of a textbook |
| 1 ton | the weight of a small car |