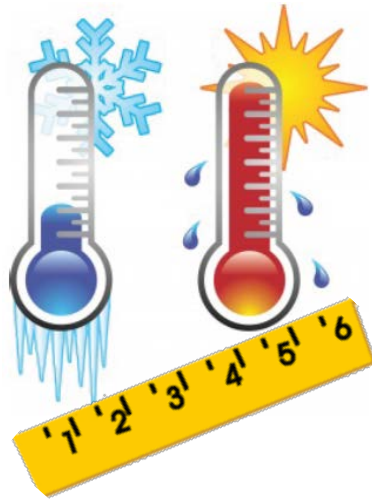


MEASUREMENTS AND TEMPERATURE



Unit Overview

In this unit, you will continue to measure lengths of various objects using measure units in the customary system and also the metric system. You will also learn temperatures in Fahrenheit degrees, and then temperatures in Celsius degrees.

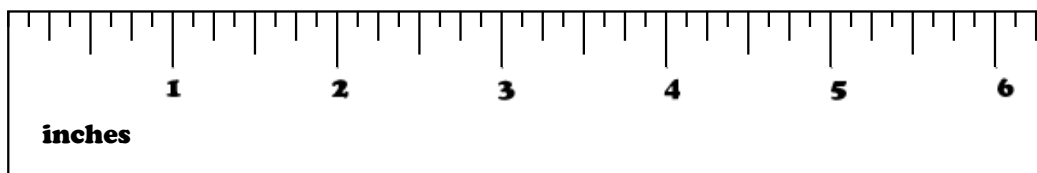
Measure the Length

The chart below shows the customary units of length.

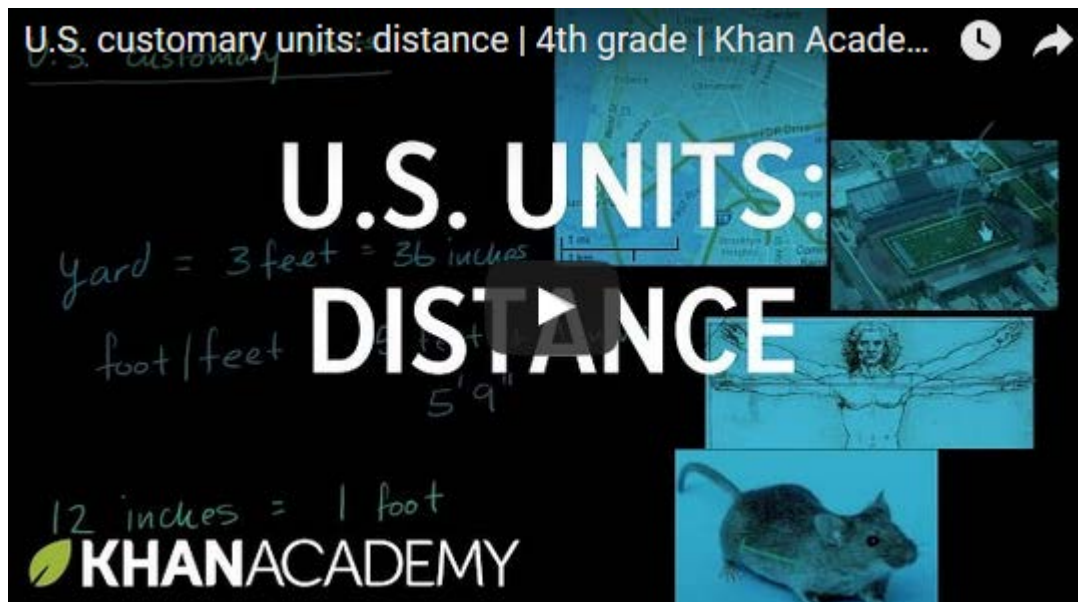
Customary Units of Length
12 inches (in) = 1 foot (ft)
3 feet (ft) = 1 yard (yd)
1,760 yards (yd) = 1 mile (mi)

When completing the questions section, you may refer to the chart for reference. It would be wise to memorize this chart because you will use measurement for the rest of your life.

An inch is the standard unit used to measure length. When measuring with a ruler, line up the end of the ruler with the end of the object you are measuring.



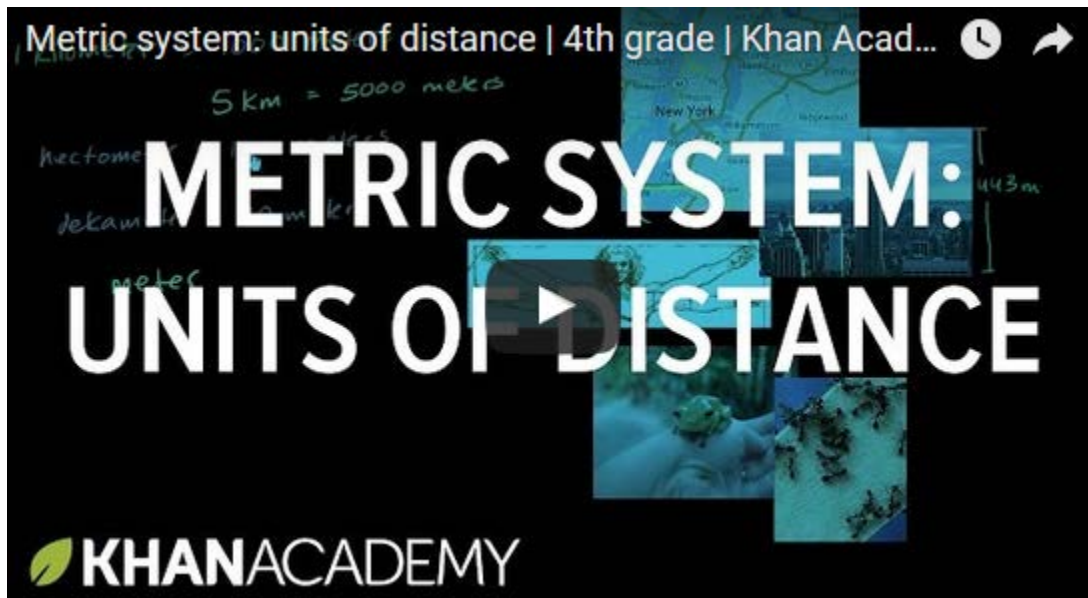
Click on the link to watch the video "[U.S. customary units: distance](#)".



The chart below shows the metric units of length.

Metric Units of Length
100 centimeters (cm) = 1 meter (m)
1,000 meters (m) = 1 kilometer (km)

Click on the link to watch the video "[Metric system: units of distance](#)".



Length

Kilometer (km)

A kilometer is a distance that is about 7 blocks long. Kilometers are used to measure long distances.

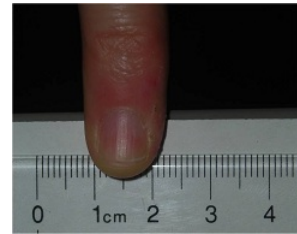


Meter (m)

A meter is about as long as a baseball bat. A meter stick could be used to measure the length of a room.

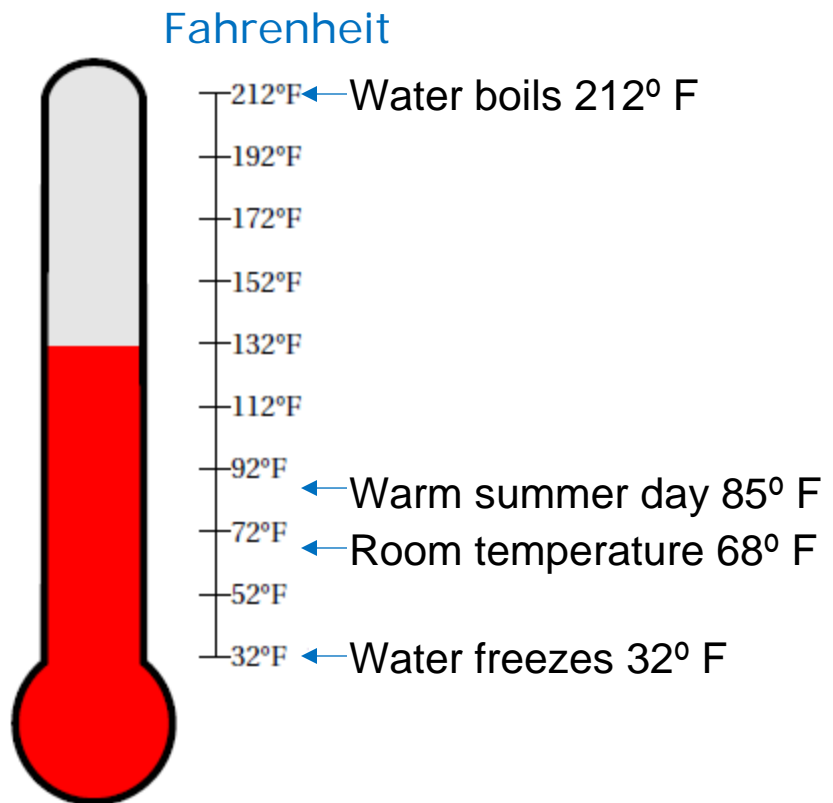
Centimeter (cm)

A centimeter is about the width of the pinky finger. A centimeter is a little less than half an inch long.



Temperature

Temperature can be measured in degrees Fahrenheit. Degrees is shortened to ° and Fahrenheit is shortened to F. A warm sunny day is 85 ° F or 85 degrees Fahrenheit. Look at the thermometer below to see some important temperatures.



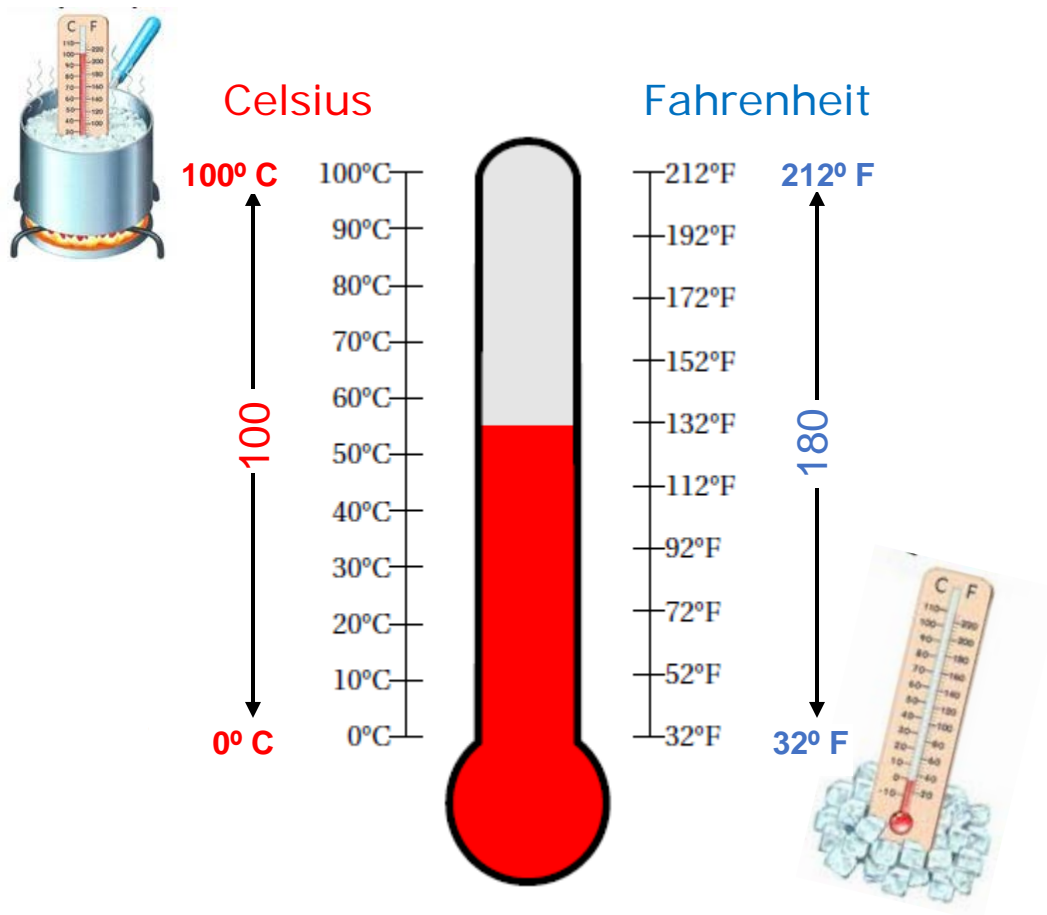
There are two main temperature scales:

- °F, the **Fahrenheit Scale** (used in the US), and
- °C, the **Celsius Scale** (part of the Metric System, used in most other countries)

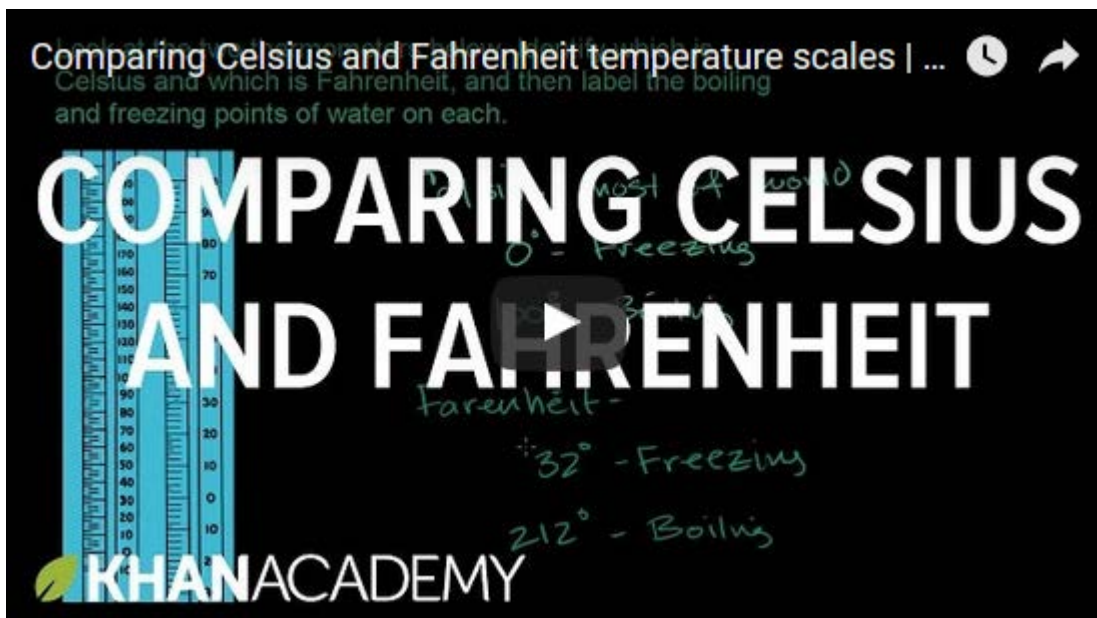
They both measure the same thing, **temperature!** But use different numbers:

- Boiling water (at normal pressure) measures **100° in Celsius, but 212° in Fahrenheit**
- And as water freezes it measures **0° in Celsius, but 32° in Fahrenheit**

Like this:



Click on the link to watch the video "[Comparing Celsius and Fahrenheit temperature scales](#)".



Typical Temperatures		
°C	°F	Description
180	356	Moderate Oven
100	212	Water boils
40	104	Hot bath
37	98.6	Body temperature
30	86	Beach weather
20	68	Room temperature
10	50	Cool Day
0	32	Freezing point of water
-18	0	Very Cold Day
-40	-40	Extremely Cold Day

Click [here](#) to play some interactive games and learn more about temperature.