

## Lesson: Temperature

**Third Grade Objective 2.02d:** Estimate and measure using appropriate units, Temperature (Fahrenheit, Celsius).

### Lesson

*Katie's mom checked the weather forecast in the morning. "It's 55 degrees Katie" mom said. So Katie put on long pants, a t-shirt and a jacket and headed off to school. When she went outside for recess after lunch, Katie was hot! She took off her jacket and wished that she had worn shorts. Katie thought that she wore the right kind of clothing for 55 degrees – what happened?*

The temperature in the morning is often much cooler than it will be later in the day. When you check the weather forecast, make sure you check to see what the high and the low will be for the day and dress according to those temperatures.

*Jeff asks his mom what the temperature will be that day. "26 degrees dear" mom answers. After he hears her answer, he puts on shorts and a t-shirt. What temperature scale did his mom give an answer in – Fahrenheit or Celsius?*

His mom gave her answer in Celsius. 26 degrees Celsius is about the same as 80 degrees Fahrenheit.

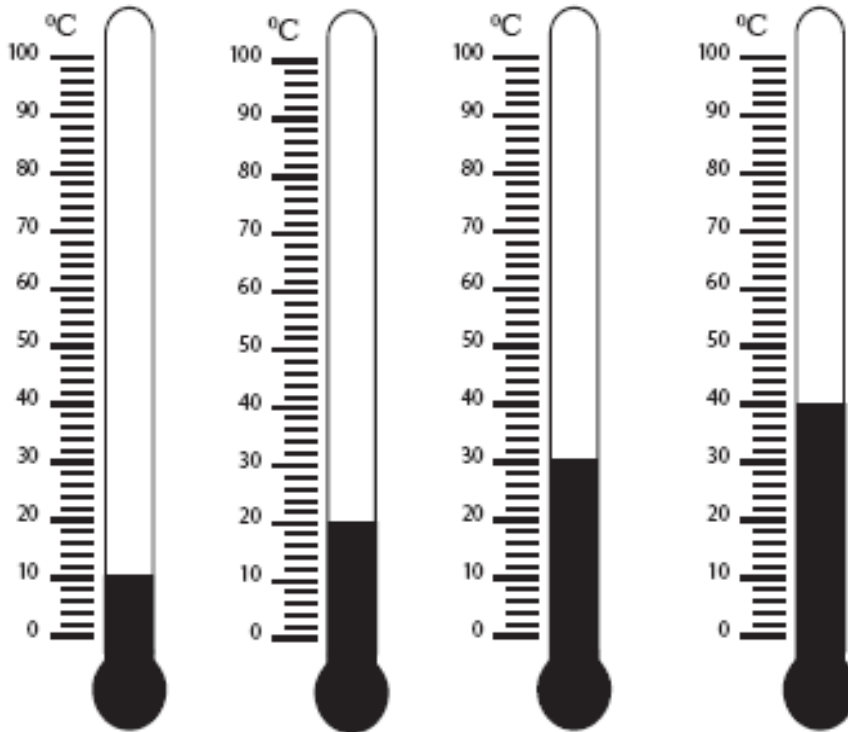
Here are some temperature benchmarks –

	Fahrenheit	Celsius
Freezing	32°	0°
Need to wear a coat	40°	4°
Long pants and a light jacket	60°	15°
Shorts and a t-shirt	80°	26°
Swimming pool time!	90°	32°
Boiling	212°	100°

Here is a Fahrenheit to Celsius converter –

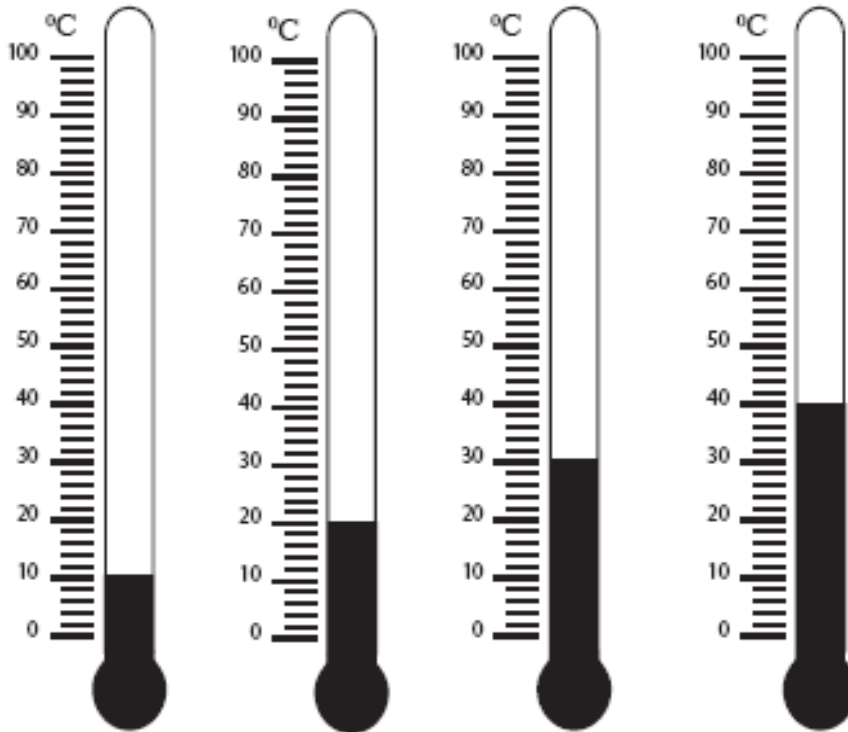
<http://www.wbuf.noaa.gov/tempfc.htm>

Try these on your own!



1. The temperatures above were recorded at different times throughout a day in June. Label each thermometer with a probable time that it was read during that day.
2. At 10am, the temperature was 52 degrees Fahrenheit. About how many more degrees will the temperature need to increase before someone would be comfortable wearing shorts outside?
3. Draw a picture of a person dressed in clothing at 30 degrees Fahrenheit and 30 degrees Celsius.

## Check Your Answers



1. The temperatures above were recorded at different times throughout a day in June. Label each thermometer with a probable time that it was read during that day.

Answers will vary -

1<sup>st</sup> thermometer – 6am

2<sup>nd</sup> thermometer – 9am

3<sup>rd</sup> thermometer – 11am

4<sup>th</sup> thermometer - 2pm

2. At 10am, the temperature was 52 degrees Fahrenheit. About how many more degrees will the temperature need to increase before someone would be comfortable wearing shorts outside?

Answers will vary – approximately 20-40 degrees

3. Draw a picture of a person dressed in clothing at 30 degrees Fahrenheit and 30 degrees Celsius. Answers will vary – at 30 degrees Fahrenheit, a person would need a coat and hat and gloves. At 30 degrees Celsius a person would need shorts and a t-shirt.