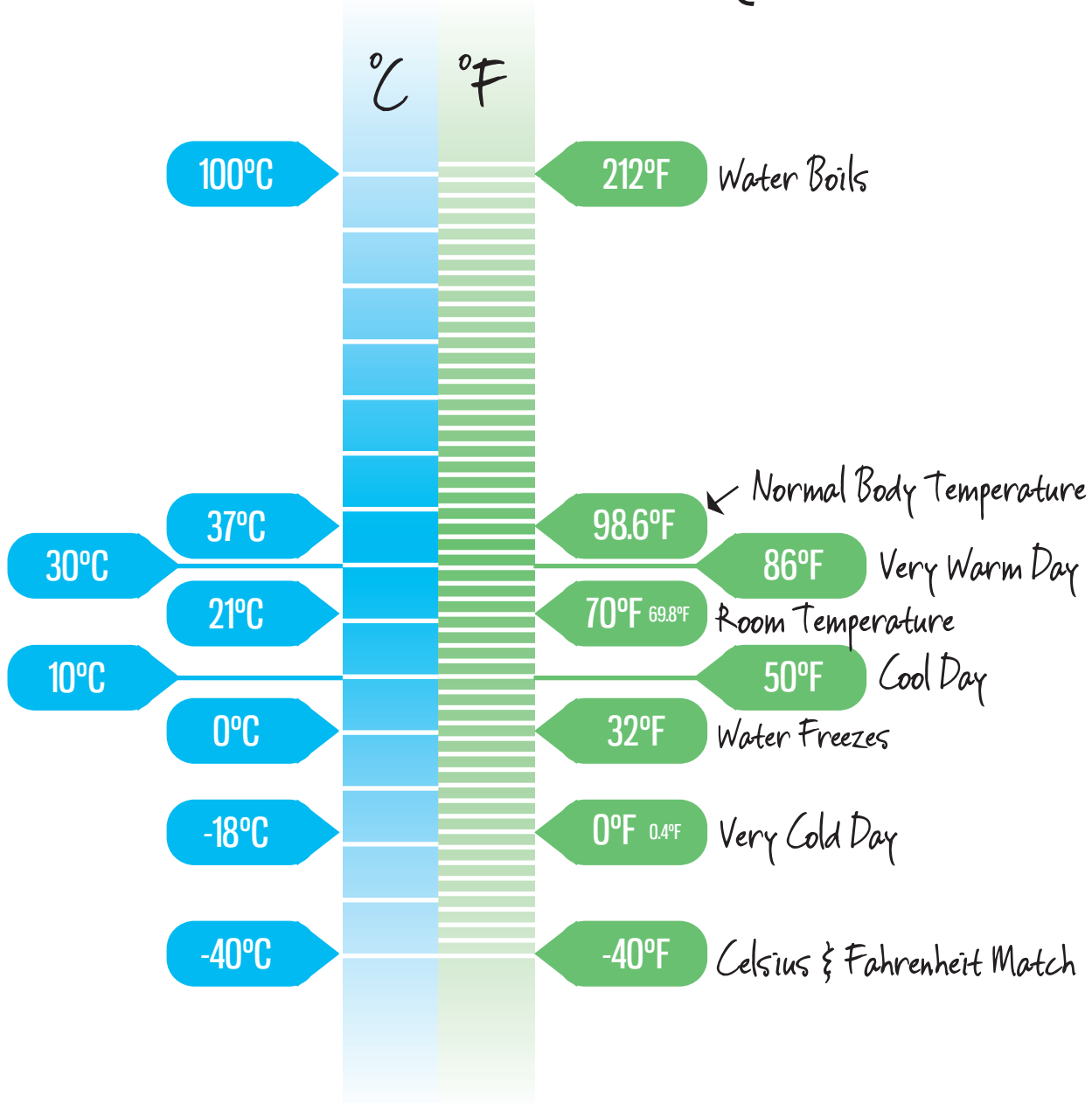


# Celsius & Fahrenheit

## LEARNING COMMON EQUIVALENTS



### COMMON temperatures

°C	°F	Measurement
100	212	Water Boils
37	98.6	Normal Body Temperature
30	86	Very Warm Day
21	70	Room Temperature
10	50	Cool Day
0	32	Water Freezes
-18	0	Very Cold Day
-40	-40	Celsius & Fahrenheit Match

# Celsius & Fahrenheit

## CONVERTING TEMPERATURES



### Converting from Celsius to Fahrenheit

Follow the top arrow, first multiplying by 1.8 and then adding 32. For example, when converting 30°C to °F, you would do the following:

- |                    |                                      |
|--------------------|--------------------------------------|
| 1) MULTIPLY by 1.8 | $30^{\circ}\text{C} \times 1.8 = 54$ |
| 2) ADD 32          | $54 + 32 = 86^{\circ}\text{F}$       |

### Converting from Fahrenheit to Celsius

Follow the bottom arrow, moving from right to left, first subtracting 32 and then dividing by 1.8. For example, when converting 86°F to °C, you would do the following:

- |                  |                                    |
|------------------|------------------------------------|
| 1) SUBTRACT 32   | $86^{\circ}\text{F} - 32 = 54$     |
| 2) DIVIDE by 1.8 | $54 \div 1.8 = 30^{\circ}\text{C}$ |

### Memory Tips

- ✓ When you convert from Celsius TO Fahrenheit, you're going to be making the number **larger**; therefore you'll be multiplying and adding. Conversely, when converting from Fahrenheit to Celsius, since you'll be making the number **smaller**, you'll be subtracting and dividing.
- ✓ To help you recall whether you use 1.8 or 32 first in your conversion, try to remember that Fahrenheit and 32 always go together (recall that water freezes at 32 degrees Fahrenheit). So the operation using '32' will always be done closest to Fahrenheit. When you convert FROM Fahrenheit, your **first** step is subtracting 32; when you convert TO Fahrenheit, your **last** step is subtracting 32.
- ✓ Remember that each degree Celsius equals 1.8 degrees Fahrenheit.