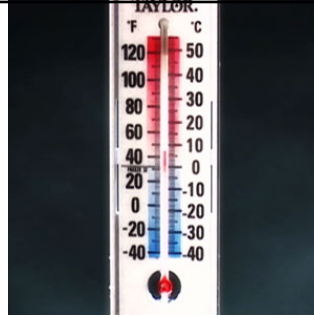


Chapter 5: Mass, Temperature, and Volume

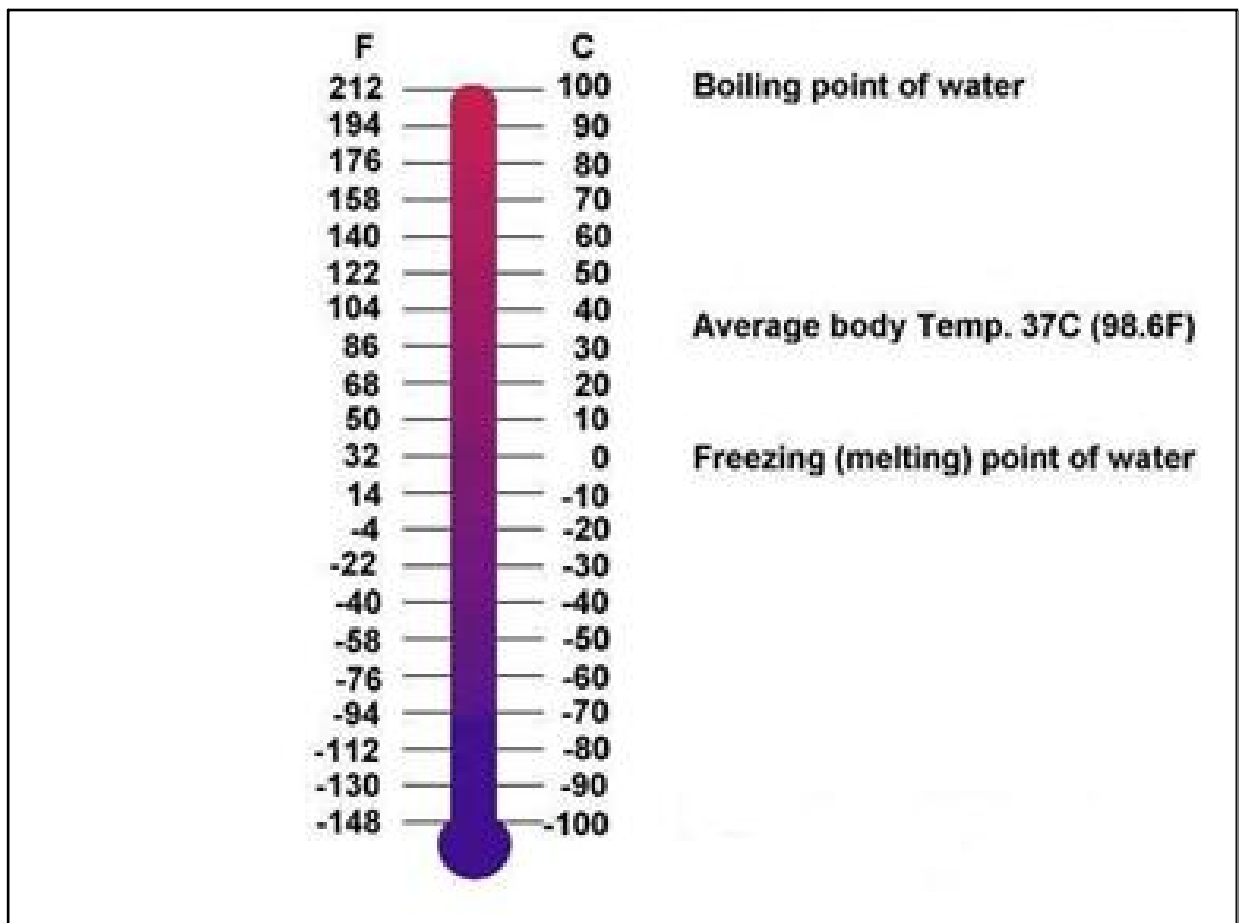
We will look at further conversions between the metric and imperial systems in this chapter and learn how to apply them to real life situations.



Textbook page 188

$$\begin{aligned}
 185^{\circ}\text{C} \quad F &= \frac{9}{5} C + 32 \\
 &= \frac{9}{5} (185) + 32 \\
 &= 365^{\circ}\text{F}
 \end{aligned}$$

Oct 2-9:00 PM



Oct 2-9:42 PM

Temperature Conversion Worksheet

Fahrenheit	=	Celsius	Comments
350°F	=	176.6°C	Standard cooking temperature
212°F	=	100°C	Water boils
170°F	=	76.6°C	Well done steak
98.6°F	=	37°C	Normal body temperature
68°F	=	20°C	Room temperature
32°F	=	0°C	Water freezes
-40°F	=	-40°C	School closures
-320.8°F	=	-196°C	Boiling point of nitrogen

To convert from Celsius to Fahrenheit:

$$T_F = \frac{9}{5} T_C + 32$$

$C = \frac{5}{9}(F - 32)$
 $= \frac{5}{9}(350 - 32)$
 $= 176.6^\circ\text{C}$

You can convert a temperature from Celsius to Fahrenheit in 3 steps:

1. Take your Celsius temperature _____ and multiply it by 9.
_____ x 9 = _____
2. Take the answer from step one and divide it by 5.
_____ ÷ 5 = _____
3. Take the answer from step two and add 32 to it.
_____ + 32 = _____

To convert from Fahrenheit to Celsius:

$$T_C = \frac{5}{9}(T_F - 32)$$

You can convert a temperature from Fahrenheit to Celsius in 3 steps:

1. Take your Fahrenheit temperature _____ and subtract 32 from it.
_____ - 32 = _____
2. Take the answer from step one and multiply it by 5.
_____ x 5 = _____

Take the answer from step two and divide it by 9.
_____ ÷ 9 = _____

Oct 2-2:39 PM

$$\begin{aligned}
 2. \quad F &= \frac{9}{5} C + 32 \\
 &= \frac{9}{5} (100) + 32 \\
 &= 212^\circ\text{F}
 \end{aligned}$$

$$\begin{aligned}
 3. \quad C &= \frac{5}{9} (F - 32) \\
 &= \frac{5}{9} (170 - 32) \\
 &= \frac{5}{9} (138) \\
 &= 76.6^\circ\text{C}
 \end{aligned}$$

HOMework...

TEXT p. 193 # 1 - 6

5.1 Worksheet - Temperature Conversions.docx



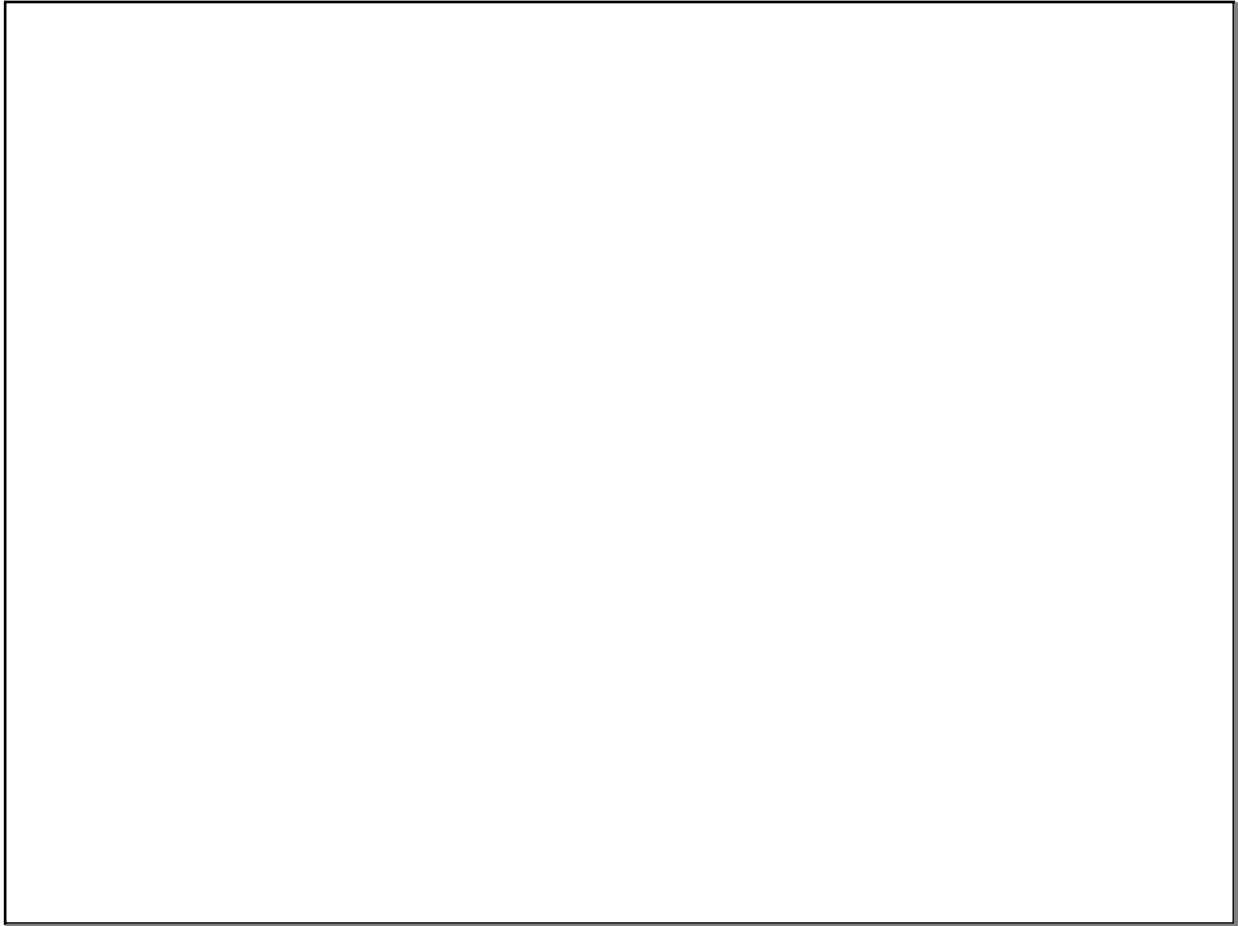
Oct 3-10:49 AM

NEED ANSWERS???

Section 5.1 Detailed Solutions.pdf



Oct 12-2:55 PM



Sep 27-9:27 AM

Section 5.1 Detailed Solutions.pdf