

Unit 9 Temperature Terms & Problems

Read 10.1 - 10.2 (pp. 289-292) and define each of the following:

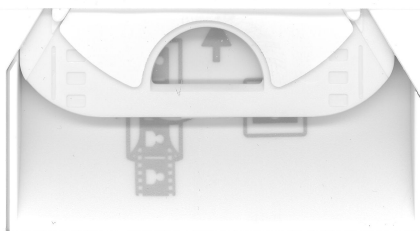
1.) Energy:

2.) Potential Energy:

3.) Kinetic Energy:

4.) Temperature:

5.) Heat:



Temperature Scales (reference 5.7; pp. 135-142) complete this chart:

Scale	m.p. water	b.p. water	Degrees between mp and bp	Uniqueness	Formula
Fahrenheit	32°F	212°F	180°F	XXXXXXX	$C = \frac{5}{9}(F - 32)$
Celsius	0°C	100°C	100°C	100 deg 0-100	$F = \frac{9}{5}C + 32$
Kelvin	273K	373K	100°C	No neg no deg	$K = °C + 273$

$$C = K - 273$$

Do the following temperature conversions (Round all numbers to .1):

a. 385. K = 112.0 °C

b. 94.0 °C = 367.0 K

c. 48.0 K = -225.0 °C

d. -101. °C = 172.0 K

e. 197. K = -76.0 °C

f. 388. °C = 661.0 K

g. 200. °C = 392.0 °F

h. 150. °C = 423.0 K

i. 100. K = -279.4 °F

j. 32.0 °F = 0.0 °C

k. 75.0 °F = 23.9 °C

l. 0.0 K = -459.4 °F

