Chem HOMEWORK
Unit 10 Intro. Terms & Problems

Name Key Period _____ Date _____

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

1.) Energy …

The ability to do work or produce heat

→ work is force applied over distance.

2.) Potential Energy …

stored energy due to position or composition

3.) Kinetic Energy …

energy due to motion (already moving)

4.) Temperature …

measure of the random motion of molecules or atoms

5.) Heat …

Flow of energy due to a temperature difference.

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

Scale	m.p. water	b.p. water	Degrees between	Uniqueness	Formula
Fahrenheit	32°F	212°F	180	XXXXXXX	XXXXXXX
Celcius	0°C	100°C	100	XXXXXXX	$5/9\,(F-32) = °C$
Kelvin	273K	373K	100	No Neg	$°C + 273 = K$

Do the following temperature conversions ...

a. 385 K = 112 °C

b. 94.0 °C = 367.0 K ← Note: the .0

c. 48.0 K = -225.0 °C

d. -101 °C = 172 K

e. 197 K = -76 °C

f. 388 °C = 661 K

Note: the .0