Chapter 1: The Nature of Energy Study Guide

1.	What is a Joule?
	Which has more energy, 10 kg of hydrogen or 10 kg of helium?
3.	Joules equal one foot –pound?
4.	The sun produces Joules per second.
5.	Joules per second reach the outer atmosphere of the Earth.
6.	The percentage of the sun's total energy that reaches the Earth is
7.	A single horsepower equals watts.
8.	A horsepower has foot –pounds?
9.	A watt equals Joules/s
10.	The element in the atmosphere that accounts for the largest affect to the Earth's temperature
	is
11.	What is the greatest of the manmade greenhouse gases in the atmosphere?
12.	In 2006, how many BTU did the United States consume?
13.	In 2006, what was the percentage of renewable energy used in the U.S.?
14.	Petroleum products replaced oil during another energy crisis.
15.	Edwin Drake began in earnest in 1859.
16.	In 2008, where is the largest biomass power station in the world?
17.	One BTU is equivalent to Joules of energy.
18.	In nuclear fission, the uranium atom is split releasing free and rays.
19.	In nuclear fusion, hydrogen atoms are fused together to form a Helium atom, a
	and energy.
20.	Compute the total energy in 100 kg of matter.