## Study Guide

## Chapter 9 – Energy Resources

<u>GPS</u> :			
S6E5. Students will in	vestigate the scientific view of how the earth's surface	is formed.	
3. Describe methods for ( S6F6 Students will des	conserving natural resources such as water, soil, and air.	l conservation	
a. Explain the role of the	e Sun as the major source of energy and the Sun's relations	ship to wind and water energy.	
b. Identify renewable an	d nonrenewable resources.		
1 Δ	is a substance that provides energy $-$ such as heat $1$	the motion or electricity – such as the	ne result of a
chemical change	is a substance that provides energy – such as heat, its	git, motion, of electricity – such as th	le result of a
2 Fuels contain store	d chamical anarov that is released when hurned like	when gasoline in a car's engine is hu	rned and
2. Fuels contain store	l energy. This process is called	when gasonne in a car's engine is ou	meu, anu
3 In an electric powe	r plant, the thermal energy produced by burning fuel		
which then turns the h	lades of a turbina	is used to boli water, making	
4 The three major for	rades of a furbline.	and	
4. The three major los	de ef energy rich chemical common de called	, and	
5. Fossil fuels are mai	de of energy-fich chemical compounds called		which
contain carbon and ny	drogen atoms.		.1 11 . 1
6	is a solid fossil fuel formed from plant remains a	nd is the most plentiful fossil fuel in	the United
States.			
7 or	1s a thick, black, liquid fossil fuel which	is formed from the remains of anima	ils, algae, and
other organisms.			
8. A factory in which	crude oil is heated and separated into fuels and other	products is called a	·
9	forms like oil is formed and produces larg	ge amounts of energy but produces lo	wer levels of
air pollutants			
10. Fossil fuels are co	onsidered resources because t	hey take hundreds of millions of yea	rs to form.
11. If	continue to be used more rapidly the	han they are formed, the reserves will	leventually
be used up.			
12. One advantage of	is that it doe	s not cause pollution and will not run	out for
billions of years.			
13. Solar energy can l	be converted directly into electricity in a	and is used	in items like
calculators.			
14. Wind and hydroel	lectric power are both indirect forms of	energy	
15	power is the most widely used source	of renewable energy.	
16	fuels include leaves, food wastes, and even	manure, belong to a group of renewa	ble resources
but are expensive to m	ake in large quantities.		
17. The intense heat f	rom Earth's interior that warms the magma is called	energy.	
18. The central core of	of an atom that contains the protons and neutrons is ca	alled the	
19.	is the splitting of an ato	m's nucleus into two smaller nuclei.	
20. The process of nu	clear fission begins when a st	rikes the nucleus of an atom causing	a chain
reaction releasing ener	(gy.	ad to change water into	
which then turns the h	lades of a turbine to generate electricity		
22. One way to make	energy resources last longer is to use fuels more efficiences	iently. is the	e percentage
of energy used for wor	rk.		r
23	means red	ducing energy use.	
24. List several example	ples of how you can conserve energy:		