Handou	it 2 (pink) Earth's	Formation	Name		Period			
Standard 2.1 Chapter 8: Section 2: Directed Reading Pages 191-196								
Section: Determining Absolute Age (page 191)								
1. W	That is absolute age?							
RADIOM	IETRIC DATING	(page 193)						
2.	. Small amounts of w a. sedimentary mate	* *			clocks? als d. igneous materials			
3.	. Atoms of the same of a. varves.	element that ha b. isotopes.	ve different numbe		are called pha particles.			
4.	b. at differing a c. at differing a	t rate regardless rates regardless rates depending	s and energy s of surrounding co s of surrounding co g on surrounding co ons remain the sam	nditions. onditions.				
5.	b. It can accura c. It can provide	le an estimate of ately measure t le an estimate of	own of radioactive of the absolute age of the relative age of the relative age of the relative age of relative age of the relative age of rela	of rocks. rocks. of rocks.	useful to scientists?			
6.	. The method of usin	-	•	_	of rocks is called d. decay dating.			
7.	. The original radioa a. the parent isotope			breakdown iso	otope. d. the clock isotope			

11. Why does radioactive carbon-14 begin to decay after a plant or animal dies?

12. Explain how radiometric dating is used to estimate absolute age.

8. What are daughter isotopes?

10. What is the half-life of carbon-14?

9. What is a half-life?

Chapter 28 Section 4: Directed Reading Pages 739-744

Section: Asteroids, Comets, and Meteoroids (page 739)

1. In addition to the sun, planets, and their moons, what occupies the space in our solar system?

ASTERO	OIDS (page 739)							
2.	What are asteroids	s?						
			the solar system	c.	fragments of rock that orbit the sun			
	b. rocky bodies	that o	orbit the planets	d.	small bodies of rock and ice with tails			
3.	Most asteroids are	four	nd in the asteroid belt located	1				
	a. between the o	rbits	of Mars and Jupiter.	c.	in orbit around Earth.			
	b. beyond the or	bit o	f Neptune.	d.	between the orbits of Mercury and Venus.			
4.			eroids is similar to that of th	e	·			
	a. inner planets.			c.	comets.			
	b. gas giants.			d.	outer planets.			
5.	For what reason d	o ma	ny astronomers think that as	teroic	ls in the asteroid belt were not able to form a			
	planet?							
	a. because of the strong gravitational force of Mars							
	b. because of the strong gravitational force of Jupiter							
	c. because of the	e tida	al forces of the outer planets					
	d. because of the	e ine	rtia of the inner planets					
~~-								
	TS (page 741)							
6.	What is a comet?							
			t revolves around a planet					
	b. a ring of pieces of rock and ice around a planet							
	c. the largest of the smaller bodies in the solar system							
			e, rock, and cosmic dust that	orbit	s the sun			
7.	A comet's spectac							
			he comet's ice to gas.	c.	moonlight is reflected from the comet.			
	b. sunlight is ref	lecte	d from the coma.	d.	gravity pulls gas form the comet.			
	ROIDS (page743)							
In the spa	ace provided, write t	he le	tter of the term or phrase tha	t best	completes each statement or best answers each			
question			1	٠,				
8.	meteor	a.		ids en	ntering Earth's atmosphere in a short period of			
	, 1		time.	1	. 1			
9.	meteor shower	b.	a bright streak of light that atmosphere	resul	ts when a meteoroid burns up in Earth's			
— 10.	iron meteorite	c.	a meteorite similar in composition to rocks on Earth that may contain carbon compounds					
	stony meteorite	d.	the rarest type of meteorite					
12.	meteorite	e.	a meteoroid or any part of a meteoroid that is left when it hits Earth					
— 13.	stony-iron	f.	a meteorite with a distinctive metallic appearance					
	meteorite				**			

14. Why are the oldest meteorites important?