Name		Class	Date	
	Vorksheet			
Dir	ected Readi	ng A		
	on: The Atom			
	1. Which of the following a. A penny has about 2 b. A penny has more at c. Aluminum is made u d. Aluminum atoms ha	0,000 atoms. coms than Earth has up of large-sized at	s people. oms.	
WHAT I	S AN ATOM MADE OF?			
Match the provided	•	the correct term. V	Vrite the letter in the space	
	2. particle of the nucleus t charge	hat has no electrica		
	_ 3. particle found in the nucleus that is positively charged	cleus that is	b. atomic mass unit (amu)	
	4. particle with an unequa and electrons	l number of proton	c. nucleus d. proton	
	. negatively charged particle found outside the nucleus	e. ion		
	6. contains most of the ma	ass of an atom		
	7. SI unit used to express	the masses of atom	nic particles	
HOW D	O ATOMS OF DIFFEREN	IT ELEMENTS DIF	FFER?	
8. The simplest atom is the			atom. It has one	
	an	d one	·	
9. Neutrons in the atom's		_ keep two or more protons		
from	moving apart.			
10. If yo	u build an atom using two	protons, two neutr	rons, and two electrons, you	
have	built an atom of			
11. An a	tom does not have to have	e equal numbers of		
and .		_•		

Name	Class		Date	
	ed Reading A <i>Continued</i>			
12. The	number of protons in the nucleus of	an atom is	the	
	of that atom			
ISOTO	PES			
	13. Isotopes always havea. the same number of protons.b. the same number of neutrons.c. a different atomic number.d. the same mass.			
	14. Which of the following is NOT ta. They are radioactive.b. They have a nucleus that alwayc. They give off energy as they td. They give off smaller particle	ays remains fall apart.	s the same.	
:	15. What is the mass number of an is and 5 electrons?a. 1b. 11	c. 10 d. 16	has 5 protons, 6 neutrons,	
	16. If carbon has an atomic number of 12 have? a. 12 b. 8	of 6, how n c. 6 d. 18	nany neutrons does carbon-	
17. Mos	t elements contain a mixture of two	or more	·	
18. The	weighted average of the masses of a	ıll the natuı	rally occurring isotopes of	
an e	lement is the	•		
	S IN ATOMS ne correct definition with the correct d.	term. Write	e the letter in the space	
	19. helps protons stay together in the 20. pulls objects toward one another 21. an important force in radioactive		a. gravitational forceb. electromagnetic force	
	22. holds the electrons around the nucleus		c. strong forced. weak force	