	•	
	Date	Class
ime		
Chap	oter 4, continued	
ection 2: The Atom (p. 87)  1. In this section you will learn about and the	the particles inside the at that act on the particl	com les
<b>How Small Is an Atom?</b> (p. 87) Each of the following statements is falsoword to make the statement true. Write provided.  2. A sheet of aluminum foil is about the statement of aluminum foil is about the statement is about the statement of aluminum foil is about the statement of th		l ace
3. An Olympic medal contains about billion atoms of copper and zinc.	twenty thousand billion	, 
What's Inside an Atom? (p. 88) Choose the term in Column B that be Column A, and write the appropriate  Column A	est matches the phrase in letter in the space provid	Column B
	TANAGA TA	
4. particle found in the nucleonate charge	2.5	a. electron cloud b. electron
charge  5. particle found in the nucleively charged	leus that is posi-	b. electron c. amu d. nucleus
<ul> <li>charge</li> <li>particle found in the nucleively charged</li> <li>particle with an unequal and electrons</li> </ul>	leus that is posi-	<ul><li>b. electron</li><li>c. amu</li><li>d. nucleus</li><li>e. proton</li><li>f. ion</li></ul>
charge  5. particle found in the nucleively charged  6. particle with an unequal and electrons  7. negatively charged partice the nucleus  8. size of this determines the	number of protons cle found outside ne size of the atom	b. electron c. amu d. nucleus e. proton
charge  5. particle found in the nucleively charged  6. particle with an unequal and electrons  7. negatively charged particle the nucleus	number of protons cle found outside ne size of the atom ass of an atom	<ul><li>b. electron</li><li>c. amu</li><li>d. nucleus</li><li>e. proton</li><li>f. ion</li></ul>
charge  5. particle found in the nucleus  6. particle with an unequal and electrons  7. negatively charged particle the nucleus  8. size of this determines the contains most of the mass.	number of protons cle found outside ne size of the atom ass of an atom ses of afomic particles part of Section 2, review waterstions in your ScienceLo	b. electron c. amu d. nucleus e. proton f. ion g. neutron

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## Calculating the Mass of an Element (p. 92)

c. share most of the same chemical properties. d. share most of the same physical properties.

b. are stable when radioactive.

'neutrons.

16. The weighted average of the masses of all the naturally occurring isotopes of an element is called \_

a. have the same number of protons but different numbers of

## What Forces Are at Work in Atoms? (p. 93)

Choose the type of force in Column B that best matches the phrase in Column A, and write the corresponding letter in the space provided.

Column A	Column B
17. counteracts the electromagnetic force so protons stay together in the nucleus	<ul> <li>a. gravity</li> <li>b. electromagnetic force</li> <li>c. strong force</li> <li>d. weak force</li> </ul>
—— 18. depends on the mass of objects and the distance between them	
19. plays a key role in neutrons changing into protons and electrons in unstable atoms	
20. holds the electrons around the nucleus	

## Review (p. 93)

Now that you've finished Section 2, review what you learned by answering the Review questions in your ScienceLog.