

Atoms

Chapter 2

Directions: *Use the word banks provided to complete the following section summary.*

atoms	building blocks	elements	isotopes
matter	minerals	model	native elements
Anything that has mass and takes up space is called (1)			Matter is made
up of tiny particles called (2)		The structure of at	toms and how they join
together determine all tl	ne properties of matter. At	oms sometimes are call	ed
(3)	of matter. Substances	that are made of only o	one type of atom are
called (4)	They may com	nbine to make up (5)	
	ome minerals are made up		
(6)			
atomic number	atoms	electron cloud	electrons
neutrons	isotopes	mass number	negative
negative	number	protons	three
A Greek philosopher	first proposed that matter	was made up of small p	particles which he called
(7)	The current model o	f the atom is made up o	of
(8)	basic parts. Particles v	with a positive charge ar	re
(9)	Particles with no cha	rge are (10)	Both neu-
trons and protons are lo	cated in the nucleus. Parti	cles with a negative cha	rge that exist outside the
nucleus are called (11)_	E	lectrons have specific ar	nounts of energy and
move around in a(n) in	a(n) (12)	, similar to bees	s in a beehive.
All atoms of the same	e element have the same (1	3)	of protons, shown
as the (14)	Atoms can lo	ose or gain electrons, ma	aking the overall charge
positive or (15)	The nun	nber of protons plus the	e number of neutrons is
the (16)	Atoms of the sa	me element that have di	ifferent numbers of neu-
trons are called (17)			



Combinations of Atoms

Chapter 2

Directions: *Define the following terms.*

1.	compound	
2.	mixture	
Dire	ections: Identify each of the following as a mixture or a compound.	
3.	NaCl	
4.	solution	
5.	water	
6.	NaCl + H ₂ O	
7.	salt	
8.	H ₂ O	
9.	air	
10.	salt water	
11.	vinegar and oil	
Dire	ections: Complete the following sentences using the correct terms.	
12.	Sweetened tea is a type of mixture called a(n)	
13.	A water molecule is made up of two atoms of and one atom	
	of	
14.	he substances in a(n) can be physically separated from one nother.	
15.	Table salt is made up of one ion of and one ion	
	of	
16.	A(n) cannot be separated into its individual elements by physical means	