Chapter 8, Part 1.

10.

1.	The were the first people to suggest a hypothesis about the nature of matter.
2.	It suggested that all matter was made of the 4 elements called:
3.	An English scientist called created a new definition of an
4.	What was Boyle's conclusion?
5.	The scientific revolution happened in the
6.	The scientists, and discovered new
7.	Read Activity 8C and briefly consider the answers to questions #1, 2, 3, 4, and 5.
Part 2 8.	discovered how to tell from in a laboratory.
9.	theorized how to tell elements from non-elements leading to his .

Describe the four parts of Dalton's Atomic Theory:

- 11. Read the profile about John Dalton found on page 167.
- 12. Review the terms Atomic number, Mass number, Atomic mass, Isotopes, and Neutral atom.
- 13. Briefly explain Bohr's model of electron arrangement:

14. Sketch figure 8.4 on page 171 and read about orbits. Do the instant practice on page 172.

15.	Elements produce a	of coloured lines ma	ade visible through a	·
16.	Describe Bohr's explanation	on of why each element has	s its own spectrum:	
17.	Read the Review 8.2, answ	er questions #1-3 found o	on page 174.	
Part 18.	3. Who developed the first pe	riodic table?		
19.	How did he sort the various	s elements?		·
20.	In what way is the modern	periodic table different to	the first one? Why?	
Part				
21.	The of t	the periodic table are know	n as	
22.	The only elements which d	o not form compounds wit	th hydrogen and fluorine are are unlikely to	,, because
	their	are full.		
23.	The most active metals on	the periodic table are calle	d the	<u>_</u> ·
24.	As a result, they are never twith other elements.	found as are very commo	in nature since they easi on everywhere on earth.	ly combine
25.	The elements in the and	need one make up the	in their outer of most reactive of the	orbits. Both
26.	Why is Hydrogen consider			
27.	you go from	within a period, the	dic table are calledelements change from	As to
Char	then last oter 9, Part 5.	stly to		
28.	Substances made of severa	1 combine i	n a definite formula are calle	ed
29.	All compounds have their	own chemical		

	_,						
Dves such a		_, and	aı	re used to cla	assify	in (hemistry
_ ,	us	which	n help cla	ssify acids a	nd bases are	e called	
List and giv	e examples o	of some pra	actical us	es of acids a	nd bases:		
What is mea	ant by the pro	ocess of No	eutralizat	ion?			
Give some	examples of 1	neutralizat	ion:				
Copy the ta	ble 9.5 found	on page 1	92 and li	st some prac	ctical uses o	f salts:	
5 .							
Read about	the formation	n of sodiur	m chlorid	e on pages 1	93 to 195.	During this p	rocess, th
sodium ator	n	ar	n electron	and this res	ults in a	0 negative o longer a alled	charg
because the	sodium atom	ı has 11 pc	ositive		$_{ m and}$ only 1	0 negative	

What is meant by the terms Acid or Base?

30.

l.	Ionic	are formed by	between	and
2.		refers to the nu	umber of electrons an atom mu	ust gain or lose to be stable.
3.	Read figure 9	.12 on page 196. Read abo	out the combining capacity of	magnesium in figure 9.14.
art	7.			
	Read Exampl	e II on page 199 and study	y figure 9.15 on ionic bonding	g of potassium and fluorine.
•	Describe the	rules for writing chemical	formulas:	
	Try Example	III on page 200/201. Try t	the instant practice exercises #	#1 to 3 on page 201.
	If there are or	aly 2 elements in an	bond, the name ends wit	h
	List some ele	ments which have more th	nan one combining capacity?	
	If ionic comp	ounds are dissolved in wa	ater, groups of ions which stay	together are
			e 9.8. Read <i>Example V</i> on pa_change the endings of their i	
t	8.			
	When twonucleus. The	atoms come clo concept of	ose together, each electron is holding atoms together	is called a to the other's
		·		
		th two atoms with covaler		
2. 3.			<i>Molecules</i> found in figure 9.9 c	on page 206.

When there is	electron	between non-metal	l elements, a	is fo
Draw the four	covalent compo	ound examples shown in fig	ure 9.22 on page 206.	
Use the "Criss	s-Cross " method	atom tells how many to achieve a d shown in writing formulas	s for covalent compound	
Use the "Criss	s-Cross " method		s for covalent compound	
Use the "Criss	s-Cross " method	d shown in writing formulas	s for covalent compound	
Use the "Criss and do the ins	s-Cross " method tant practice on j	d shown in writing formulas	s for covalent compound	s on page
Use the "Criss and do the ins	s-Cross " method tant practice on j	d shown in writing formulas page 209 of your text book:	s for covalent compound	s on pag