

Name

can be beaten into plates

IQRA HUFFAZ BOYS SECONDARY SCHOOLS

SCIENCE (ASSIGNMENT # 2)

Date: _____

Unit 6: Elements, mixtures, and compounds Complete the table to differentiate between metals and non-metals.					
shiny					
conductors of heat and electricity					
melting points					
states found in					
produce sound on being beaten					
can be drawn into wires					

Class VII

1. Write the properties of ionic and covalent compounds in the correct boxes below.

Ionic compounds	Covalent compounds

Properties: hard solids, do not conduct electricity, high melting and boiling points, good conductors of electricity, soluble in water, soluble in covalent compounds, do not conduct electricity, low melting and boiling points, found in all three states.

- 1. Draw the following atoms and write their names:
- a. atomic mass 12, atomic number 6
- b. atomic mass 23, atomic number 11
- c. atomic mass 35, atomic number 17

2.	2. Which two atoms would make an ionic compound?					and		
	_				•			
3.	V	Vrite the name	of the compo	und			·	
Q	3.	Complete the	table.					
	Pro	perties		Ionic	Ionic compounds		Covalent compounds	
	(i)	Physical sta	ate d, gas)					
	(ii)	melting po						
	/:::\	(high, low)						
	(iii))					
	(iv)	solubility						
	(v)		valent slovents nd between at	-				
	(v)	(covalent, i						
Q		Fill in the blar						
	i.							
	ii.				d particle found			
i	ii.	An	is a neg	atively charge	d particle whicl	h revolves arou	und the nucle	us of an atom.
i	V.	The number o	f protons in a	tom is called i	ts	·		
	V.	The sum of th	e number of p	orotons and ne	eutrons in an at	om is called it	s	·
Q		•	-	ing the numb	er of protons, r	neutrons and e	electrons, alo	ng with the
at	omi	c and mass nur	Symbol	Protons	Neutrons	Electrons	Atomic	Mass
		(a) hudua aan					number	number
		(a) hydrogen					1	1
		(b) carbon					6	12
		(c) sodium					11	23
		(d) chlorine					7	35
		(e) oxygen					8	16
Q		Choose the co						
	i.			-	d of atom is ca			
	a) a compound b) an element c) a mixture d) a solution							
	ii. A non-metal.							
		a) is a bad conductor of heat and electricity b) has a high melting point						
		c) can be drawn into wires d) is usually a solid.						
iii	ii. Air is an example of a mixture of.							
		a) Liquid and	solid b) liqu	uid and gas	c) solid and	gas d) g	as and gas	

iv.	In a solution of sugar and water, sugar is the.				
	a) solute	b) solvent	c) sediment	d) emulsion	
v.	A mixture of oil and wat	A mixture of oil and water is called.			
	a) An emulsion	b) a suspension	c) a sediment d)	a solution	
vi.	Passing a solution throu	gh filter paper is calle	paper is called.		
	a) evaporation	b) distillation c)	crystallization d)	filtration	
vii.	Coins are made of a mix	ture of.			
	a) Non-metals	b) gases	c) metals	d) liquids	
viii.	An element that can cor	nductor electricity is called a			
	a) solid	b) liquid	c) non-metal d)	metal	
Q5.	Match the statements in	lists A and B.			
	Α		В		
a)	An element	is form	ned by a chemical reac	ction.	
b)	A compound	is pass	ing a mixture through	filter paper.	
c)	A mixture	is a la	yer formed by the sett	tling of particles at the	
C)	Amixture	bottor	bottom of the solvent.		
d)	Filtration	is a pu	re substance		
e)	An emulsion	are go	od conductors of heat	and electricity.	
f)	A solute	is disso	olved in a solvent.		
g)	A sediment	is form	ned when oil and wate	er are mixed.	
h)	Metals	contai	contains particles that are not chemically combined.		