10.1 SCIENCE 2012 METALS AND NON-METALS TEST

Name: Answer hey Teacher: Mark: /63							/61	
	SECTI	ON A:		MULTIPLE CHOICE		(3 marks)		
	Selec	t the best	answer for each question	on below.				
	1.	Select the	e alloy from the list below	w.				
		(a)	Aluminium					
		(b)	Copper					
		6	Bronze					
		(d)	Mercury					
	2.	Choose th	he incorrect statement.					
		(-)					1	
		(a)	Mixtures are not compo					
		(b) (c)	Elements are also mole					
			Compounds are also mo Compounds are not mo					
		(d)	compounds are not mo	necules.				
	3.	Choose th	ne correct statement.					
			Steel is an alloy or iron	with small amounts of o	carbon added to i	t.		
		(b)	The properties of the ne				netal.	
		(c)	Most of the metals arou	und you are pure metals	S.			
		(d)	An alloy is made up of a			f another met	al added to	it.
SEC	TION B	i:	SHORT ANSWE	:R	ś			
1.	In the	beaker or	n the right, draw an elen	nent with 3 atoms.	(1 mark)	0-		
						80		
						Company of the last of the las	The same of the sa	
					ś			
2.	In the	beaker or	n the right, draw a mixtu	ire.	(1 mark)	0		
						00		
						《		
					4		and the second	
3.	In the	beaker or	n the right, draw a comp	ound with 3 atoms	(1 mark)			
		DOGNOT OF	araw a comp	ound with 5 atoms.	(I mark)	0		
						60		

4. Explain the difference between an eleme	ent and a compound.	(2 marks)			
is made up of different eletypes of atoms					
5. Explain the difference between a mixture Mixture are ato Compands are		(2 marks) i'cally combined, nically combined.			
6. Classify the following as either a compound	nd, element or molecule. Son	me may be more than one . (6 marks)			
elevent notewite	mixture E e. note whe	elevert molewle F Molewle wygan			
0.50	•				
7. Write definitions for the following words. Ductile:Able be seen a see		wires.			
Malleable: Able to be shape	hamered in	(2 marks)			
		(2 marks)			

Boiling point: The temperature at which a sul	stare
Boiling point: The temperature at which a sub whates from a light of a vapour	
	(2 marks)
Melting point: The temperatre at which the substance changes state from a solid	-
substance changes state from a solid	
to aliquid	(2 marks)
Electrical conductivity: whether a substance can	
allow an electric wirest to pass	<u> </u>
through it!	(2 marks)
Lustre: How shing or dull a substance is.	(2 marks)
8. Why can't most metals be used as pure elements? Too soft to be used.	(1 mark)
9. What are 'alloys'? A metal condined with small amounts	(2 marks)
A metal combined with small amounts of another meta element.	
10. Brass is 70% Cu and 30%, what element is the base metal?	(1 mark)

(15 marks)

Characteristic	Metals	Non-metals	Metalloids
Ductile? (yes or no)	Yes	70	No
Malleable?		\	\
(yes or no)	Yes	No	No
State in room temperature	Solid	Solld, liquid	Solid
		gas	
Electrical conductivity (good or poor)	good	p001	PODI
Lustre	Shing	dull	dull of Shing

11. Fill in the missing spaces. Compounds are made of or m	(5 marks)			
together. For example, water is made up of two atoms and one oxygen atom chemically together.				
Mixtures are two or more different combined.				
Molecules are one or more ottom chemically c				
12. Write the names of the following elements. Sn: Tin Cu: Lopper Hg: Mescasiy Au: Lold N: Nitroger Si: Sillcon	Zn: Zinc Ni: Ni chel Al: Awninium H: Hydrys S: Sulfur B: Boron			
13. Draw lines to match up the types treatment t	to their descriptions. (3 marks)			
Annealing	Heat metal then polish and bend with steel wool.			
Tempering	Heat metal then allow to cool.			
Quenching	Heat metal then cool rapidly by dropping into water.			