10.1 SCIENCE 2012 **ELEMENT TEST**

Nan	ne:	Teacher:		Mark:	/
CEC	TION A				
SECTION A: MULTIPLE CHOICE		(3 marks)			
Sele	ect the be	est answer for each question below.			
1	ماليال				
1.	All the	elements in one period have the same number of			
	(a) ((b)	Electrons in their first shell. Shells.			
	(c)	Electrons in their outer shell.			
	(d)	Protons.			
2.	All the	elements in one group have the same number of			
	(a)	Protons.			
	(b)	Shells.			
	(c)	Neutrons.			
	(d)	Electrons in their outer shell.			
3.	The pe	riodic table was first put together in 1869 by the Russian c	chemist		
	(a)	Ernest Rutherford.			
	(b)	John Newlands.			
	(C)	Dmitri Mendeleev.			
	(d)	Antoine Lavoisier.			
TION B: SHORT ANSWER					
What are the		three parts that make up an atom?		(3 ma	rks)
	proto	n, neutron, electron	n'e sa	(0),,,	
	or I	Testing testing the con-			
How	/ many el	ectrons can be held in the first shell of an atom? –	2		
How	ow many electrons can be held in the second shell of an atom? –				
How	ow many electrons can be held in the third shell of an atom? —				
How	w many electrons can be held in the fourth shell of an atom? –				
				(4 ma	rks)
Hov	How many naturally occurring elements are there?			(1 ma	rk)
	True or false – some elements have the same type of atoms as each other			(1 ma	5.
			The management		
The \	ery centi	re of the atom is called the <u>nudeu</u>		(1 ma	rk)

1	Не	helium
2	Be	Beryllium
3	Ne	Neon
4	0	Oxy ger
5	F	Fluorine
6	Mg	Magnesium
7	K	Fluorine Magnesium Potassium Silium
8	Si	Silium
9	С	(W D)
10	Na	Sodium
11	Н	hydroger Lithium
12	Li	Lithium
13	В	Bioron
14	N	Nitroger
15	Al	Nitroger Alumhium
16	Р	Phosphorus
17	S	SU/CV
18	Cl	Chlorine
19	Ar	Chlorine Argon
20	Ca	Calcium

7.	What is the name given to the very outside shell of an atom?	(1 mark)	
	valence shell		
8.	What are the rows in the periodic table called? Period	(1 mark)	
9.	What are the columns in the periodic table called?		
10.	Explain why are symbols used for elements, instead of just element names?	(2 marks)	
13	nternationally reasonised so all sweetists		
	hterationally reasonised so all sweetists thow which is which		
11.	Fill in the missing spaces.	(2 marks)	
the \	ything around us is made up of <u>atom</u> . We call them the building blocks because even with our <u>eye</u> or even with our <u>eye</u> or even with our <u>eye</u> .	erything in th a powerful	

Look at the element taken from the periodic table on the right.					
a)	What is its atomic number?		(1 mark)		
b)	What is its mass number?		(1 mark)	20	
c)	How many protons are there in its nucleu	s? <u>20</u>	(1 mark)	Ca	
d)	How many neutrons are there in its nucle	us? 20	_(1 mark)	40	
e)	What is the charge for neutrons?	utrail	(1 mark)		
f)	What is the charge for electrons?	ative	(1 mark)		
g)	What is the charge for protons?	fue	(1 mark)		
they use	e different letters that are not even found in	the name of t	the element!	(2 marks)	
oth	e than English	401	t torigonyes		
a) Draw	an atom in the box on the right.	(0.5 ma	arks)		
b) Draw	an element compound in the box on the rig	ght. (0.5 ma	rks)		
				m Acres a	
				protons and (6 marks)	
- [*** *** *** *** *** *** ** ** ** ** **	19 K 39	XXX XX		
	a) b) c) d) e) f) g) Explain they use that	a) What is its atomic number? b) What is its mass number? c) How many protons are there in its nucleud d) How many neutrons are there in its nucleud e) What is the charge for neutrons? f) What is the charge for electrons? g) What is the charge for protons? Explain why are the names of some elements so different letters that are not even found in the later of the than English a) Draw an atom in the box on the right.	a) What is its atomic number?	a) What is its atomic number? (1 mark) b) What is its mass number? (1 mark) c) How many protons are there in its nucleus? (1 mark) d) How many neutrons are there in its nucleus? (1 mark) e) What is the charge for neutrons? (1 mark) f) What is the charge for electrons? (1 mark) g) What is the charge for protons? (1 mark) Explain why are the names of some elements so different to their symbol? For example they use different letters that are not even found in the name of the element! What name of the element! And name of the element! And name of the element! (0.5 marks) Draw an atom in the box on the right. (0.5 marks) Draw the electron configurations for the following. Remember to write the number of neutrons and use X's to show the electrons.	

19 P 20 N Alkali metals, Alkaline earth metals, Nobel gases, Transition metals, Halogen gases, Rare earth metals. Alkali me tals 14 \$1 ින Fe \$5.83 Ge 7201 Br Cu 1.1 Ru Pi 1.b Tc Ri Cd L Te An 1920 Pt 195.1 11 204.4 Н Ta 1800 11 Os 190.3 He pi, Bi Re Ir Db (283) Mt (360) Hs (365) Re (212) Rf Blt Ds 63 Eu 1330 64 Gd 151.3 Dy 167.5 67 Ho 161.9 63 Er 1673 Sia Tin right U 101 100 103 102 Fin (257) Pu C'm Cf Np BkEs Νo Md Lr (262)

b) Look at the diagonal line, the elements touching this line have special characteristics – what is the name given to these elements?

MLTMODS (1 mark)

c) Look at the arrows on the bottom of the periodic table. On which side would you find the metals? Left or right.

(1 mark)