## **THIRD PERIODICAL TEST IN SCIENCE 8**

NAME:	GR.& SEC	SCORE:
<b>Directions:</b> Read carefully the sentences below each. Write the letter of your answ	·	hey refer to from the given choices
•	•	
	*	ng a particular characteristic. What
term refers to the characteristics that desc	-	
A. color	C. property	
B. mass	D. volume	
2. Which of the following given se	•	
A. stone, nail, pen	C. radio, car, gasoline	
B. ice, water, crayon	D. oxygen, stone, ice o	
3. Which of the following is NOT	•	solids, liquids, and gases?
A. Liquids have definite volum		
B. Gas particles are far from ea	ich other.	
C. Solids have indefinite shape		
D. Liquids take the shape of the	eir containers.	
4. Which of the following statemen	nts is FALSE regarding the	particle model of matter?
A. The particles of matter in so	lid attract each other.	
B. The particles of matter in so	lid are vibrating in a fixed	position.
C. The space in between the pa	rticles of matter in solid is	filled with air.
D. The particles of matter in a	gas are randomly moving i	n any direction.
5. Which of the following states of	matter allow an easy flow	of particles?
A. Gas and liquid	C. Solid and gas	
B. Liquid and solid	D. Solid, liquid and ga	S
6. Which of the following has the s	strongest force of attraction	between the particles?
A. gas	C. solid	-
B. liquid	D. vacuum	
7. Which BEST describes the parti	cles of a solid?	
A. completely unmoving	C. have weak attractive	e force
B. vibrating at a fixed position	D. have large spaces ir	n between
8. Which of the following states of	- ·	
A. gas	C. solid	•
B. liquid	D. both a and b	
9. When you inflate a balloon with		volume of the container. Why do
gases like air do NOT have definite shape	•	,
A. Because gases are free to me		
B. Because gases have weak at		
C. Because gases do not have a		
D. Because gases have strong a		
10.Which pair of states of matter h		
A. gas and solid	C. solid and liquid	
B. liquid and gas	D. none of the above	
11. Which transformation process		tter to a gaseous state?
A. evaporation	C. melting	tion to a gaseous state:
B. freezing	D. sublimation	
D. HOCKING	D. Suommanon	

12	. Which of the following processes	changes a gaseous state of matter to a solid state?
	A. deposition	C. melting
	B. evaporation	D. sublimation
13	. Which transformation process cha	anges a solid state of matter to a liquid state?
	A. condensation	C. freezing
	B. evaporation	D. melting
14	. What phase transformation occur	s when clouds precipitate in the form of rain?
	A. condensation	C. melting
	B. evaporation	D. freezing
15	. What will happen to the kinetic e	nergy of the particles of matter if the temperature will
increase?	?	
	A. decrease	C. remains the same
	B. increase	D. neither increase nor decrease
16	. What happens to the arrangement	of particles of solid, liquid and gas as the temperature of
particles	decreases?	
	A. Particles are becoming closer	together
	B. Particles move farther apart fro	om each other
	C. There is no change in the arrar	ngement, it stays the same.
	D. It becomes disordered and the	n changes back to become ordered
17	. What conditions favor evaporation	n?
	A. Increase of temperature and in	crease of kinetic energy.
	B. Decrease of temperature and d	ecrease of kinetic energy.
	C. Increase of temperature and de	ecrease of kinetic energy.
	D. Decrease of temperature and in	ncrease of kinetic energy.
18	. Which situations undergo phase of	change?
	A. cleaning of room	C. melting of ice drop
	B. opening of tin can	D. chewing of bubble gum
19	. What phase change takes place as	s ice candy solidifies?
	A. condensation	C. freezing
	B. evaporation	D. sublimation
20	. Which of the following processes	leads to the decrease in the movement of particles?
	A. melting $\rightarrow$ evaporation	C. condensation $\rightarrow$ freezing
	B. freezing $\rightarrow$ sublimation	D. deposition $\rightarrow$ sublimation
21	.Which of the following activities	turns liquid into another state of matter?
	A. boiling of water	C. pouring water in a glass
	B. stirring of lemon juice	D. discarding used water in a sink
22	.What phase change occurs in dryi	ng wet clothes?
	A. condensation	C. melting
	B. evaporation	D. sublimation
23	.Which of the following phase cha	nges needs a decrease in temperature and kinetic energy?
	A. solid to gas	C. solid to liquid
	B. liquid to gas	D. liquid to solid
24	.What happens to the arrangement	of particles in mothballs once it is placed inside the
cabinet fe	for a month?	
	A. The particles are freezing.	
	B. The particles are coming close	r.
	C. The particles are getting heavi	
	D. The particles are getting farther	er apart.

25	.What happens to temperature and	kinetic energy of a substance when it undergoes change of
state from	n liquid to solid?	
	A. Both increases	C. Both remains the same
	B. Both decreases	D. One either increase or decrease
26	. Which of the following subatomic	e particles determine the identity of an atom?
	A. protons	C. protons plus neutrons
	B. neutrons	D. electrons plus protons
27	. An atom of an element is electrical	ally neutral because the number of protons is equal to the
number o	of	
	A. electrons	C. nucleons
	B. neutrons	D. nucleus
28	. Which particles have approximate	ely the same size and mass?
	A. protons and neutrons	
	B. electrons and protons	
	C. neutrons and electrons	
	D. None because all are different	in terms of size and mass
29	. Which two particles would be attr	racted to each other?
	A. protons and neutrons	C. electrons and neutrons
	B. electrons and protons	D. All particles are attracted to each other.
30	. Which of the following statement	s are TRUE about the subatomic particles?
	I. The charge of electron is oppos	ite to the charge of proton.
	II. Proton has approximately the s	same mass with neutron.
	III. Electrons and protons are loca	ated within the nucleus.
	IV. The mass of an atom is concer	ntrated at the nucleus. Scoring Rubrics:
	A. I, II, and III	C. I, III, and IV
	B. I, II, and IV	D. I, II, III, and IV
31	. What was Thomson's atomic mod	lel called?
	A. Spherical Model	C. Plum Pudding Model
	B. Solar System Model	D. Model of the Atomic Theory
32	-	s BEST describes the location of electrons in Rutherford's
model of	The atom?	
	A. The electrons are inside the nu	cleus.
	B. The electrons are outside the n	ucleus.
	C. There are no electrons in the R	utherford Model.
	D. Electrons are both inside and o	outside of the nucleus.
33	. How do we call the protons and n	eutrons that are found together in the nucleus?
	A. nuclei	C. atomic mass
	B. nucleons	D. mass number
34	. What observations in the gold foil	l experiment made Rutherford conclude that atoms are
	mpty space?	•
,	A. Some alpha particles were defl	ected at smaller angles.
	B. Most alpha particles passed thr	_
	C. Few alpha particles deflected a	
		ted from their path, indicating that the positive charge of
	the atom occupies very large s	
35	What conclusion did Rutherford's	
=	A. Atoms are indivisible.	
	B. Neutrons are located in the nuc	eleus.

(	C. Atoms contain a positively cha	arged nucleus.	
]	D. Electrons move in definite ene	ergy levels called	d shells.
36.V	Which of the following statement	s concerning sub	patomic particles is correct?
1	A. Three fundamental types exist	t, all of which ar	e charged.
]	B. Three fundamental types exist	, one of which is	s charged.
(	C. Three fundamental types exist	, two of which a	re charged.
	D. Three fundamental types exist		_
			nd the mass number 18. An atom of this
isotope con			
_	A. 8 protons		
	B. 8 neutrons C. 9 neutrons D. 18	R electrons	
			ent B has an atomic number of 118. What
	number of electrons of element		one B has an acomic number of 110. What
			D. 120
	How many protons, neutrons and		
	A. 17 protons, 15 neutrons and 1°		the neutral atom of C1 17 33 !
	B. 17 protons, 17 neutrons and 1'		
	•		
	C. 17 protons, 17 neutrons and 18		
	D. 17 protons, 18 neutrons and 1		7 1 1 4 1 4 9
			describes atoms, ions and isotopes?
	I. Neutral atom has equal number	-	
	•		retain the characteristics of an element.
	-		unequal number of neutrons in the nucleus.
j	•	-	ns and electrons and are formed when an
	atom loses or gains electrons.		_
	A. I, II and III	C. I, III and IV	
	B. II, III and IV	D. I, II, III and	IV
	Which of the following paths wa	s most	
likely to o	ccur?		4
1	A. Path 1 C. Path 3		
]	B. Path 2 D. Path 4		Path of Path 2
42. \	Which of the following paths wa	s	alpha Path 3 particle Path 4
least likely	to occur?		
1	A. Path 1 C. Path 3		
]	B. Path 2 D. Path 4	ı	Figure 4. Rutherford's gold foil experiment
43.7	The charge on an alpha particle is	s positive.	representations
Based on t	this information, what must be th	e charge of	Illustrated by: Mary Lou A. Abamongga
the nucleu	s?		
1	A. neutral	C.negative	
]	B. positive	D. both positive	e and negative
	According to Rutherford's experi	-	_
	A. empty space	C. a charged nu	
	B. alpha particles	D. cannot be de	
	Which term is used to the vertica		
	A. group	C. rows	1
	B. line	D. table	
	What are Group 1 elements know		
	A. Alkali metals	C. Representat	ive elements
1	1. 1 111WII IIIVWID	c. representat	21.0 01011101110

	B. Transition elements	D. Inner transition elements
47.	Which element is found in period	od 6, group 4?
	A. Cr B. Hf	C. Pb D. Ti
48.	Elements in the same group hav	e the same number of
	A. protons	C. electrons
	B. neutrons	D. valence electrons
49.	In which period and group is Sil	lver (Ag) located?
	A. Period 2, Group 1	C. Period 4, Group 2
	B. Period 3, Group 8	D. Period 5, Group 11
50.	How are elements arranged in the	ne Periodic Table?
	A. increasing atomic radii	C. decreasing atomic masses
	B. increasing atomic masses	D. increasing atomic numbers
51.	Why do elements of the same gr	roup have similar chemical properties?
	A. They have different atomic n	nasses.
	B. They have one electron in the	e outer shell.
	C. They have different number of	of electrons in the outermost shell.
	D. They have the same number	of electrons in the outermost shell.
52.	In which arrangement of elemer	nts will reactivity generally become lesser?
	A. left to right	C. top to bottom
	B. bottom to top	D. both A and B
	K, Na, Ca, Mg,	Zn, Fe, H, Cu
52	W/l-:-14-44-14-14	
33.	Which statement about the react A. Zinc is less reactive than Iron	-
	B. Sodium is less reactive than 0	
	C. Copper is more reactive than	
5.1	D. Calcium is more reactive that Based on the reactivity series, where	
34.	A. Copper	C. Sodium
	B. Lithium	D. Zinc
55		netals is arranged according to increasing reactivity?
	A. K, Mg, Na, Li	C. Mg, Na, Li, K
	B. Mg, Li, Na, K	D. Na, Li, Mg, K
56	<del>-</del>	als reacts most vigorously with cold water?
50.	A. Copper	C. Magnesium
	B. Iron	D. Sodium
57		llow rusting to take place the fastest?
	A. Iron, salt and water	C. Steel, salt and weak acid
	B. Steel, salt and water	D. Iron, salt and weak acid
58		metal in the compound replaces the less reactive metal.
	this, which of the following state	

A. The less reactive metal repels the more reactive metal from its compound.

B. The more reactive metal bonds with the less reactive metal from its compound.

C. The more reactive metal pushes out or displaces the less reactive metal from its

comp	oound.	
D. The l	ess reactive metal pushes	s out or displaces the more reactive metal from its
comp	oound.	
59.Which m	netal is preferred to be use	ed for water pipes? because it is unreactive?
A. Copp	oer	C. Iron
B. Gold		D. Potassium
60. Sodium	, Magnesium, and Alumii	num belong to period 2.
Which of the follo	wing statements is correct	ctly stated?
A. Alun	ninum repels Magnesium	from its compound.
B. Sodiu	um bonds with Aluminum	n from its compound.

- C. Aluminum displaces Sodium from its compound.
- D. Sodium pushes out Aluminum from its compound.