

QUIZIZZ	NAME : _____
Metals VS Non-Metals	CLASS : _____
32 Questions	DATE : _____

7. At room temperature metals are _____.

liquid solid

8. Metals that can be used as wire are _____.

metallic shiny

9.



When an object changes shape when struck by a hammer.

10.

Sample	Appearance	Physical Properties
1		<ul style="list-style-type: none"> Dull Yellow Powdery solid Smells like eggs Broken by hammer
2		<ul style="list-style-type: none"> Silvery-gray Solid Shaped into a bar Dented by hammer
3		<ul style="list-style-type: none"> Reddish-brown Shiny solid Shaped into a wire Can be stretched Dented by hammer
4		<ul style="list-style-type: none"> Silvery-gray Solid Small round pellets Flattened by hammer

which sample is most likely a nonmetal?

Sample 1

Sample 2

Sample 3

Sample 4

11.



This picture illustrates copper's

brittleness

malleability

ductility

12. Which of the following metals is used for making foil to pack foodstuff?

Aluminium

Mercury

Sodium

Copper

13. All of the following would classify an element as a metal except?

Dull

Luster

Malleable

Hard

14. Fluorine is used in many tooth pastes because it helps maintain healthy teeth. At room temperature it is gaseous, and does not conduct electricity. Based off these properties, it would be classified as?

A metal

A non metal

A metalloid

15. The list which contains only metals is

aluminium, copper, nitrogen

iron, oxygen, hydrogen

iron, silver, aluminium

iron, sulphur, copper

16.



Elements in the shaded area can best be described as -

Shiny and brittle, semiconductors

Insulators

Good conductors

17. The word "luster" refers to which property of matter?

The ability to conduct electrical or thermal energy

Capable of being drawn out into thin wires

The way a surface appears when it reflects light

Suitable for being shaped by beating or rolling

18. Metalloids _____

have no properties of metals.

have no properties of nonmetals.

have some properties of both metals and nonmetals.

none of the above

19. Unlike non-metals, most metals tend to —

conduct electricity and heat well.

be gases at room temperature.

break easily when hammered.

have less luster and shine.

20. Periodic table of the elements

The periodic table is color-coded to group elements by their properties. Groups 13-18 are shown in a single row. The lanthanide series (56-71) and actinide series (90-103) are shown as separate rows below the main table.

Period	Group	Element																	
1	1	H	2	13	Al	3	14	Si	4	15	P	5	16	S	6	17	Cl		
2	2	Li	3	12	Be	4	11	Na	5	10	Mg	6	9	Ca	7	8	Sc		
3	19	K	20	21	Ca	21	22	Ti	22	23	Cr	23	24	Mn	24	25	Fe		
4	37	Rb	38	39	Sc	40	41	V	41	42	Cr	42	43	Mn	43	44	Fe		
5	55	Ba	56	57	Ti	57	58	Nb	58	59	Mo	59	60	Tc	60	61	Ru		
6	87	Fr	88	89	La	104	105	Hf	105	106	Ta	106	107	Re	107	108	Os		
7	90	Ra	91	92	Ac	106	107	W	107	108	Re	108	109	Pt	109	110	Au		
						Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv		
						56	59	60	61	62	63	64	65	66	67	68	69	70	71
						Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
						90	91	92	93	94	95	96	97	98	99	100	101	102	103
						Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	

*Numbering system adopted by the International Union of Pure and Applied Chemistry (IUPAC) © Encyclopaedia Britannica, Inc.

Where are the non-metallic elements found in the periodic table?

In the middle

In the top rows

On the left-hand side

On the right-hand side

21.



Which of the following is a property of a non-metal?

Conducts electricity and heats well

Can be hammered into thin sheets

Is brittle and breaks easily

Has a shiny, metallic luster

22. What physical properties are used to classify elements as metals, non-metals, or metalloids?

Color, smell, physical state

Reactivity, streak, hardness

Ability to burn, mass, density

Luster, conductivity, malleability

23. Non-metals are good conductors of heat and electricity.

TRUE

FALSE

24.



This ion has

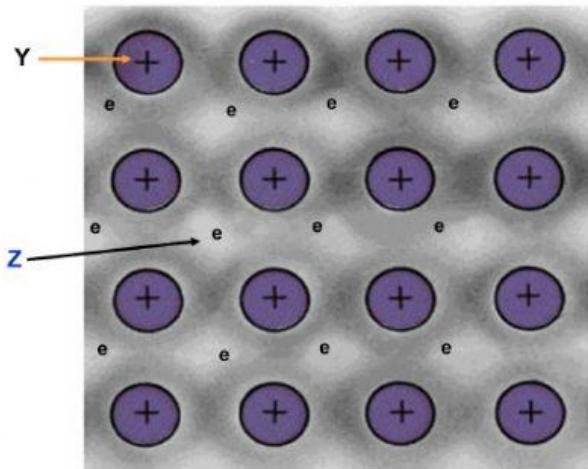
gained one electron

lost one electron

gained one proton

lost one proton

25.



What is Y?

Positive ions are immersed in the sea of electrons

Negative ions are immersed in the sea of electrons

Molecule are immersed in the sea of electrons

Atom are immersed in the sea of electrons

26. Metallic bond is an electrostatic force between _____ metallic ions and the sea of delocalised electrons.

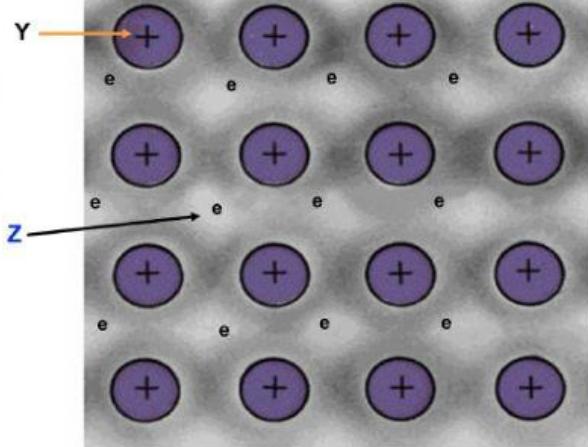
negative charge

positive charge

atom

molecule

27.



What is Z?

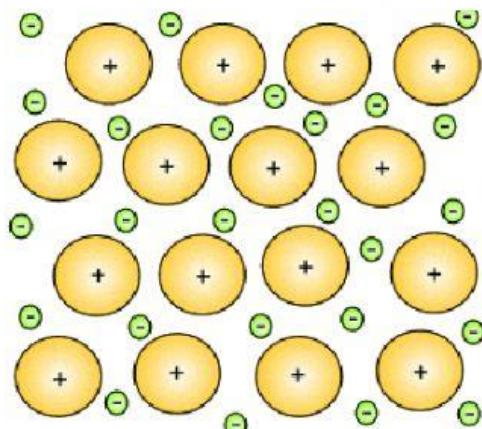
Free moving protons

Free moving atoms

Free moving neutrons

Free moving electrons

28.



What type of bond is illustrated above?

Metallic

Ionic

Covalent

Wiggly

29. A bond between a metal and a nonmetal is called a(n)

covalent bond

ionic bond

metallic bond

transfer bond

30.



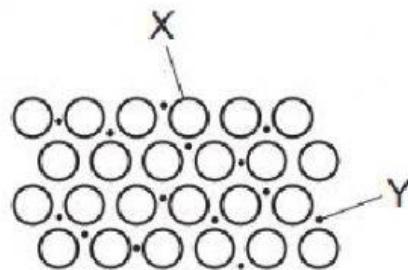
Sodium chloride, NaCl

Ionic

Covalent

Metallic

31.



The diagram shows metallic bonding.

Which labels are correct?

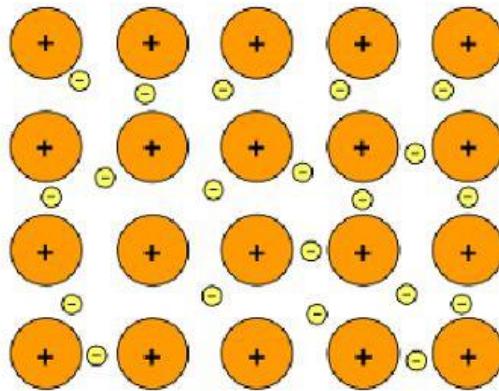
X: atomic nucleus Y: outer electron

X: metal atom Y: mobile electron

X: metal cation Y: mobile electron

X: positive ion Y: negative ion

32.



Which type of bonding allows for the conduction of electricity in the solid state?

Metallic

Ionic

Network Covalent

Molecular Covalent