

Name Quiz r Eleme	name: Physical Science, CH 04 & 05 Atomic Structure & Periodic Table of	-
1.	The subatomic particle with a negative charge is the :	
2. A B	The Scientist that discovered the electron is Ernest Rutherford. True False	
3.	The subatomic particle that makes the atom unique is the:	
4.	The elements found in group 1 are called the:	
5.	When an electron falls back to it's original energy level it will emit different colors of:	
6. A B C	The Scientist or Philosopher who coined the term "atom" was: Schrodinger Bohr JJ Thomson Democritus	
7. (A) (B)	The scientist or philosopher that was resonsible for discovering the nucleus and the positive particle inside the nucleus is Ernest Rutherford. True False	

Name the metallic element in group one that would be the most reactive:

8.

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	H
9. (A) (B)	The isotopes Boron-10 and Boron-11 will have the same number of neutrons but a different number of protons. True False
10.	The scientist who was responsible for the gold foil experiment was:(last name only please)
11.	The atomic number represents the number of in an atom's nucleus.
12. (A) (B)	The subatomic particles that have the most mass are the protons and the neutrons. True False
13.	Energy level four in the electron cloud will hold a total of electrons.
14.	All orbitals in the electon cloud can hold a maximum of electrons.
15. (A) (B)	The sublevels found on energy level two are s,p,d,and f. True False
16.	What scientist was responsible for the planetary model of the atom ? (last name only please)

17.	The unit used to label average atomic mass is:	
\bigcirc A	grams	
B	kilograms	
C	atomic nucleus units	
D	atomic mass units	
18.	What type of elements on the periodic table have several ele-	ments that are gases at room
		He He B C N O F Ne
•		- Na Ma
		K Ca Sc Ti V Cr Mn Fe Co Ni Cu Zi Ga Ga As Sc Br Kr Rb Sr V Zr Nb Mo Tc Ru Rh Pd Ag Cc In Sn Sb Te I Xe Cc Ba * Lu Hr Ta W Re Cs Ir Pt Au Hg Ti Pp Bi Po At Rn Fr Ra ** Lr Rt Db Sg Bh Hs Mt UnrUnuluub
		- "Lesthands som La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Act Th Pa U Np Pu Am Cm B K Cr Es Fm Md No
		Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No
		-
19.	Name the energy level in the electron cloud that can hold a to	otal of 18 electrons.
	All Cil Cil Cil	
20.	All of the following are non-metals EXCEPT:	
\bigcirc	Hydrogen	H H H H H H H H H H H H H H H H H H H
(B)	Argon	K Ca Sc Ti V Cr Min Fe Co Ni Cu Zn Ga Ge As Se Br Kr
C	Silicon	Cs Ba * Lu H Ta W Re Os ir Pt Au Hg Ti Pb Bi Po At Rn Fr Ra ** Lr Rf Db Sg Bh Hs Mi Um/Duu/Duu
D	lodine	**Lachhande series C R N Pm Sm Eu Gd Tb Dy Ho Er Tm Yb **Lachhande series R R R R R R R R R
21.	All of the following are chemical and physical properties of m	etals EXCEPT:
A	poor conductors	
	malleable	
B C D	gives away electrons	
P	ductile	
	Democritus thought matter was composed of tiny particles co	alled atoms, and these atoms were:
22.	·	
23.	In the lab titled: Modeling the Location of and Electron; each electron in the electron cloud.	shaded in square represented one
(A)	True	
\bigcirc B	False	
24.	The group of elements on the periodic table that already hav	e a full outer energy level are the
∠→.	·	

		No. Mg No.
25.	The, is the sum of the protons and neutrons in t	he nucleus of an atom.
26.	The electrons found in the last energy level are call the	electrons.
27. A B C D	All of the following are true of Dalton's Atomic Theory, EXCEPT atoms of the same element are identical all matter is composed of atoms that are indivisible atoms of different kinds combine to make compounds in a chemical reaction, the atoms are simply rearranged In the electron cloud, there are a total of energy le	
29.	NAME the element found in group 14 and period 5.	I
30.	Calculate the number of neutrons in the isotope Lead-207.	Na Mg Na M

31. How many protons are found in an atom of Manganese?

		H
32.	How many electrons are found in an atom of Zirconium?	H H H H H H H H H H
33.	What is the average atomic mass of an Aluminum atom?	H H H H H H H H H H
34.	What is the mass number for a Gold atom?	H H H H H H H H H H
35.	Mendeleev arranged his periodic table of elements using the elements and their properties.	of the
36.	Name the element that has five valence electrons and those venergy level six.	ralence electrons are found on N

37. All of the following are metalloids EXCEPT:

A	Phosphorous	He H
B	Boron	K Ča Šc Ti V Čr Mn Fe Čo Ni Ču Zn Ga Ge As Še Br Kr
(C)	Antimony	Character for beautiful contract our Country on Country of Country
(D)	Tellurium	**************************************
38.	The subatomic particle found outside the nucleus of the atom	is the:
39.	All Alkaline Earth metals have a total of valence electron	
		No. Mg N
		H
		**Latitusede series
40.	NAME the element has the following electron configuration:19	s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ² 3d ⁵
		V
		Fr Ra *** Ur RT Ob Sp Ob Hs Mt User User User User User *La Co Fr Nd Fm Sm Eu Gd Tb Or Ho Er Tm Vb *La Co Fr Nd Fm Sm Eu Gd Tb Or Ho Er Tm Vb *Ac Th Fe U Np Fu Am Cm Bk Or Es Fm Md No
		Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No
41.	All of the following elements(Chlorine, Bromine, Iodine) have	valence electrons
A	6	valence electrons.
B	7	
(C)	9	
9		
42.	The elements found between group 3-12 are called the	·
43.	How many neutrons does an isotope of Barium-137 have?	
٦٥.	How many head ons does all isotope of ballum-157 have:	
44.	Name the element with the following electron configuration:	ls ² 2s ² 2p ⁶ 3s ¹

45.	Name the family that the following elements belong to: Bromine, Fluorine, Iodine, Chlorine
A	Alkaline Earth Metals
B	transition metals
(C)	Halogens
D	Noble Gases