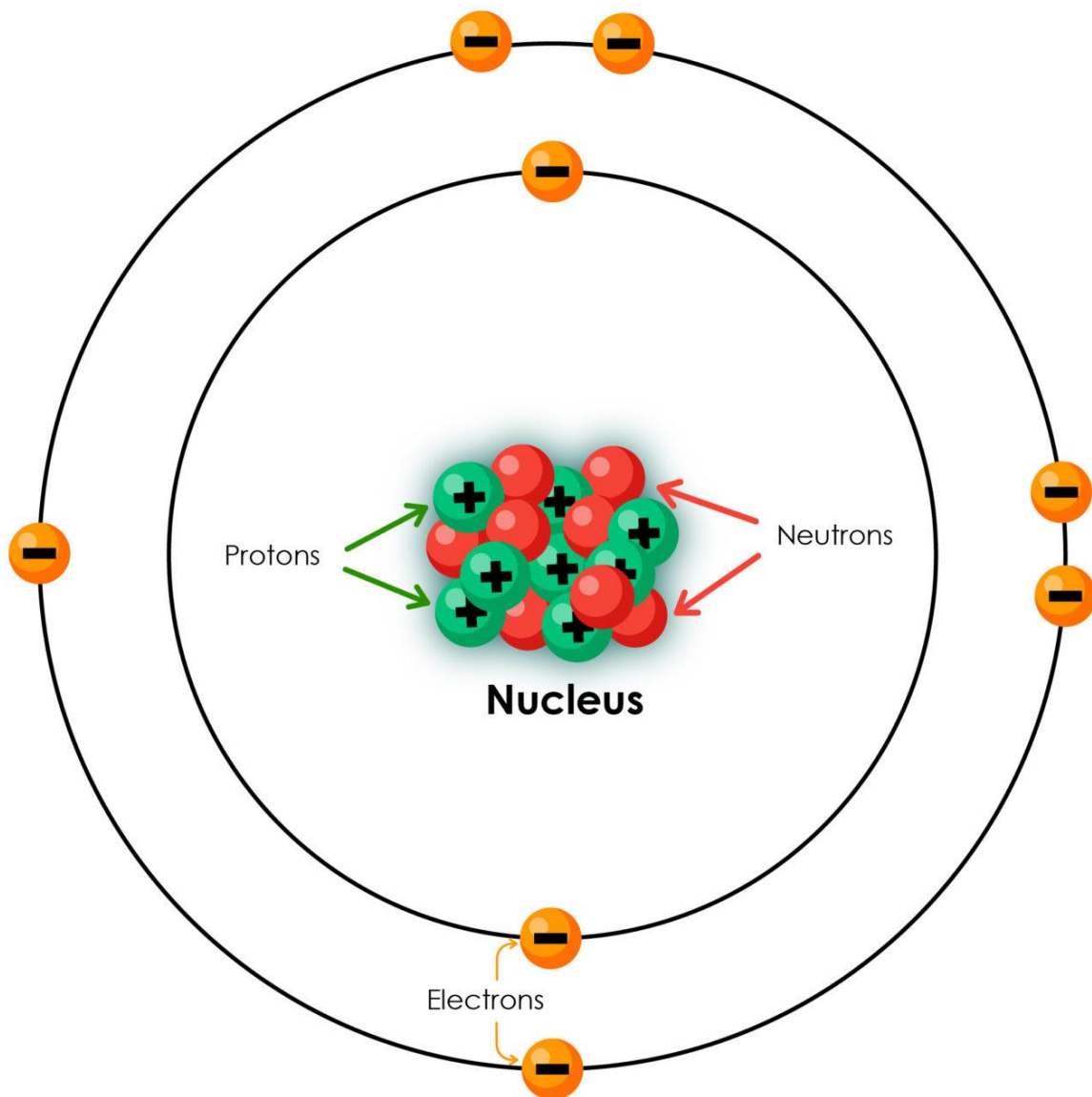
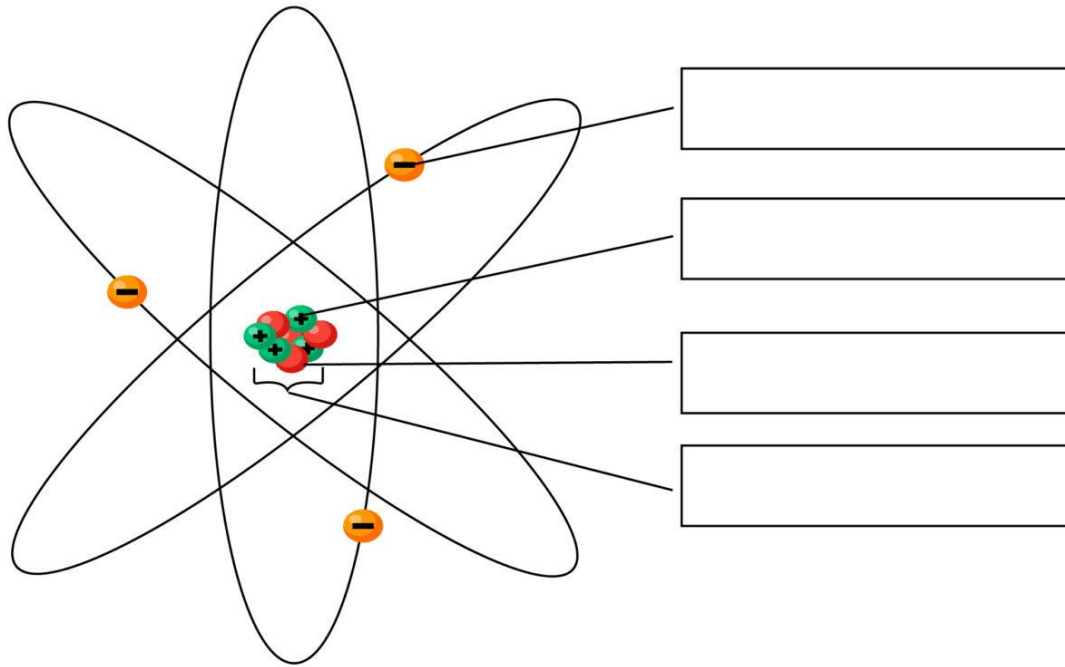


ATOM



Name: _____

ATOM LABEL AND DEFINE



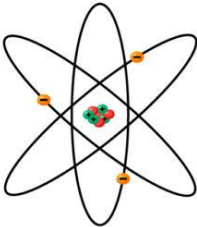




Terms	Definition
Nucleus	
Protons	
Neutrons	
Electrons	

Word Bank

Protons	Neutrons	Electrons	Nucleus
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PARTS OF AN ATOM

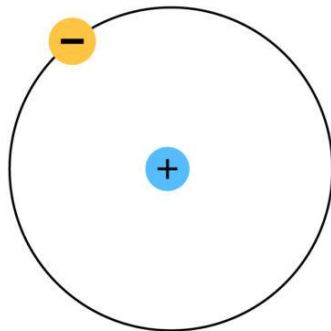
TERMS AND DEFINITION

	Atom	An atom is the smallest unit of matter that uniquely defines a chemical element.
	Nucleus	The nucleus is the positively charged center of an atom that contains protons and neutrons.
	Neutrons	A neutron is a subatomic particle that has no electric charge.
	Protons	A proton is a stable subatomic particle that has a positive charge.
	Electrons	An electron is a subatomic particle that has a negative charge.

EXAMPLES OF ATOMS

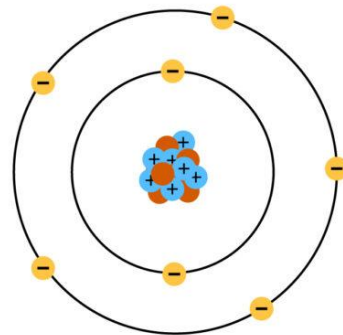
H

Hydrogen
1 proton
1 electron



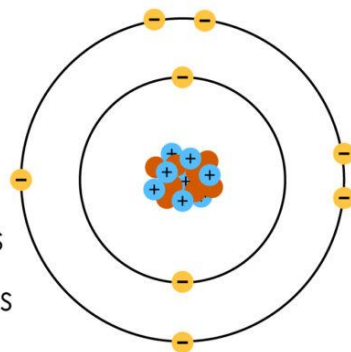
N

Nitrogen
7 protons
7 neutrons
7 electrons



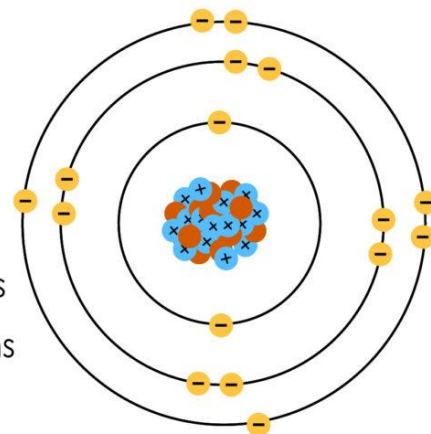
O

Oxygen
8 protons
8 neutrons
8 electrons



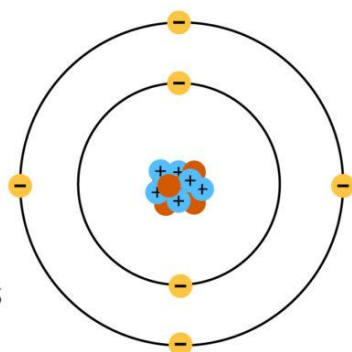
S

Sulfur
16 protons
16 neutrons
16 electrons



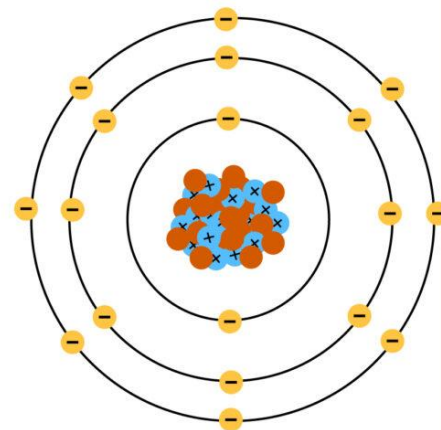
C

Carbon
6 protons
6 neutrons
6 electrons



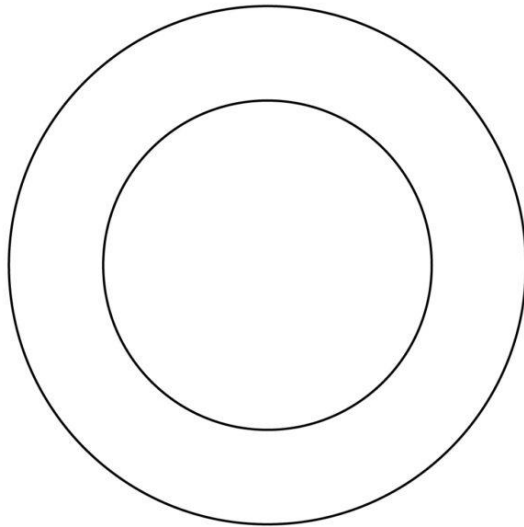
Ar

Argon
18 protons
22 neutrons
18 electrons

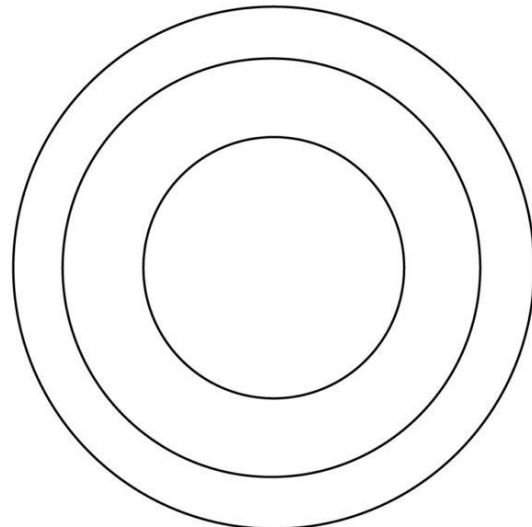


Name: _____

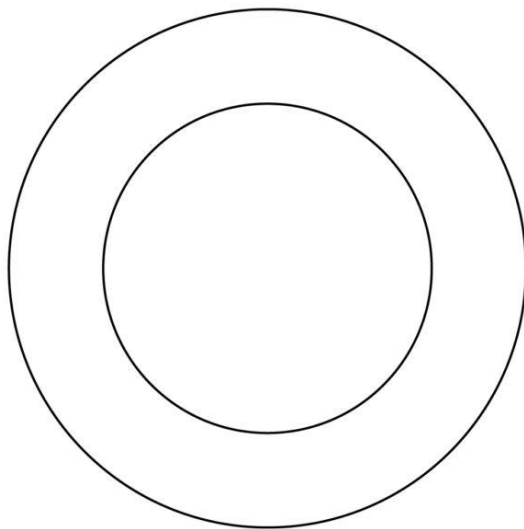
CREATING ATOM



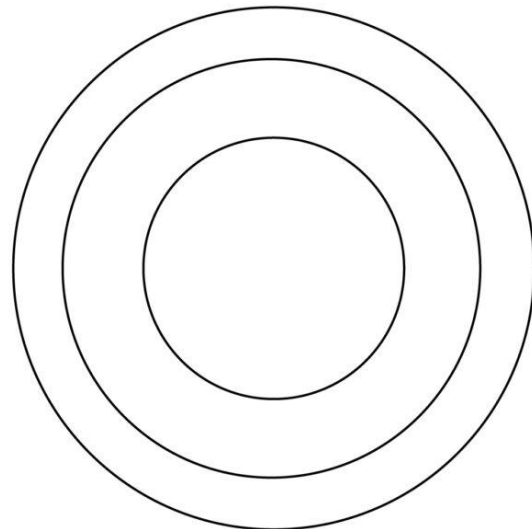
Oxygen



Sulfur



Carbon

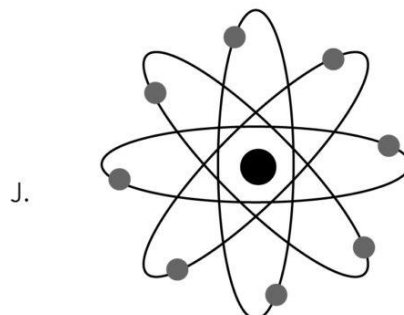
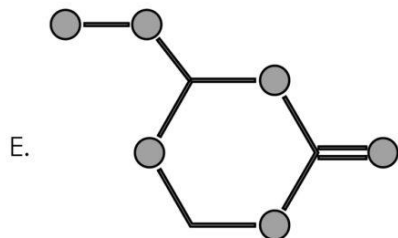
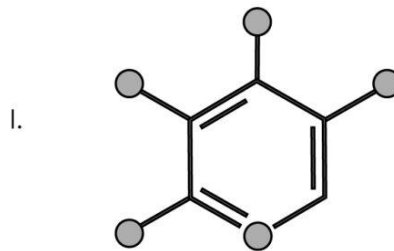
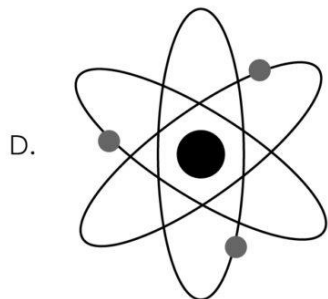
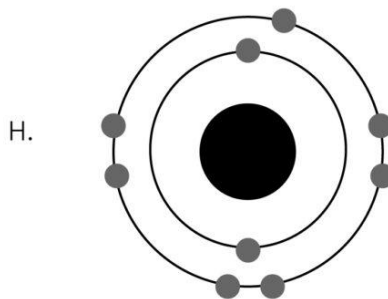
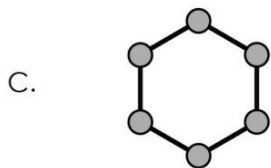
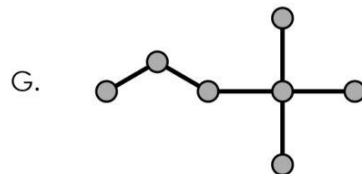
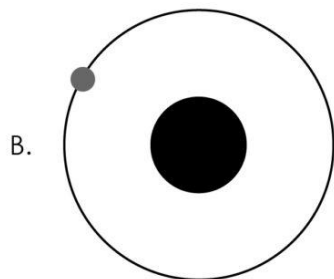
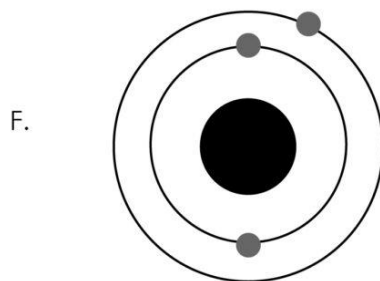
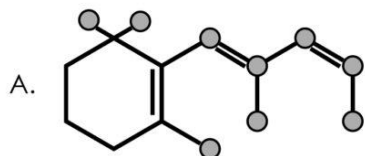


Magnesium

Name: _____

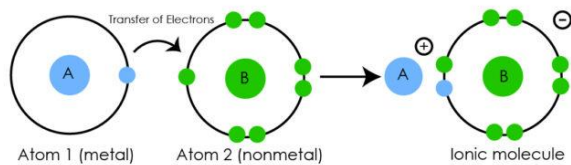
ATOM STRUCTURE IDENTIFICATION

Directions: Which of the following is an atomic structure? Encircle the letter of the correct answer.

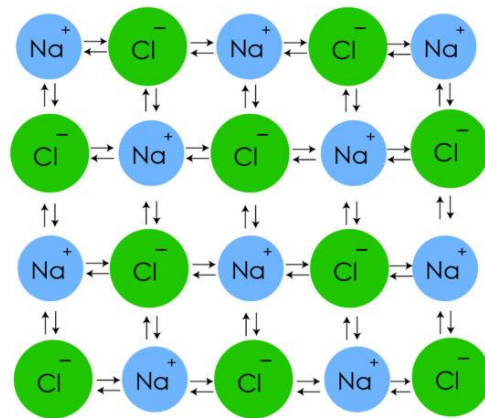


ATOMIC BONDS

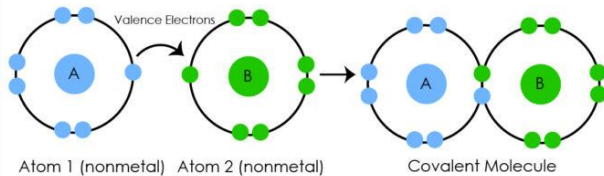
Ionic bond -An ionic bond is formed when valence electrons are transferred from one atom to the other to complete the outer electron shell.



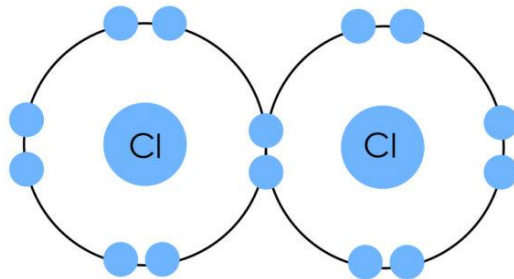
Example : Salt (NaCl)



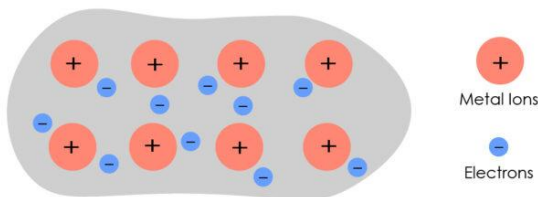
Covalent bond -A covalent bond is formed when the valence electrons from one atom are shared between two or more particular atoms.



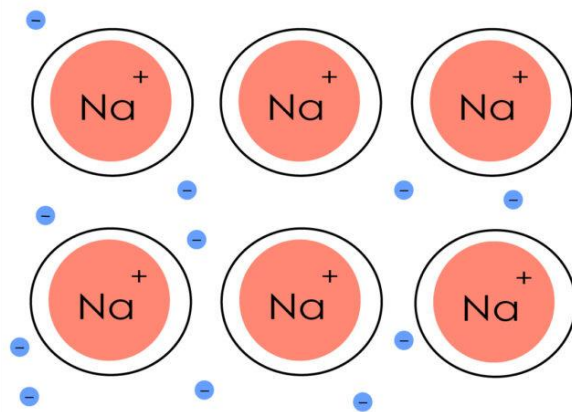
Example : Chlorine (Cl₂)



Metallic bond -A metallic bond is formed when the valence electrons are not associated with a particular atom or ion but exist as a "cloud" of electrons around the ion centers.



Example : Metallic Sodium



Name: _____

ATOMIC BONDS ILLUSTRATION

Directions: Illustrate the different types of atomic bonds.

Ionic bond



Covalent bond



Metallic bond




Name: _____




ATOM WORD SEARCH




E	L	E	C	T	R	O	N	S	I	S
C	P	O	S	I	T	I	V	E	O	A
I	E	E	R	K	B	A	D	E	N	C
M	V	D	P	R	O	T	O	N	S	I
O	I	U	B	B	N	O	D	U	T	L
T	T	F	R	I	D	M	T	C	E	L
A	A	I	F	G	O	B	B	L	E	A
B	G	G	S	M	F	E	B	E	P	T
U	E	P	H	G	A	A	O	U	G	E
S	N	E	U	T	R	O	N	S	M	M
C	O	V	A	L	E	N	T	S	M	M


ions 

electrons 


protons

neutrons

atom 

nucleus 

covalent

bond 

positive

negative

subatomic

metallic 