

Name _____

Mystery Element Worksheet

Name the elements!

A.	Elements A-D are part of a Group whose members are all gases. A used to be popular for making lighted signs. B was discovered by spectroscopy of sunlight and is used in balloons. C was the first member of this Group to be made into a compound. D is used in welding.
B.	
C.	
D.	
E.	E and F are members of a Group containing gases and solids. E forms a diatomic molecule, which makes up 78% of Earth's atmosphere. F is a poisonous metalloid.
F.	
G.	G , H , and I are members of a Group of reactive metals which all react with Chlorine to form salts of formula XCl . G is in the first 18-element Period. H is the heaviest non-radioactive member of the Group and I is commonly used in batteries.
H.	
I.	
J.	J , K and L belong to the same family and are all metals. A compound of J is a major component of bones and teeth. K is used in flash bulbs and flares, as it burns very brightly. L is a radioactive element discovered by Marie Curie.
K.	
L.	
M.	
N.	M is a gas which is classified in Group 1, but is not much like the other elements of Group 1 (or any other Group!)
O.	N , O and P are in the same Group and form -1 ions when they combine with metals. N is a liquid and O is a dark, purple-fuming solid. P is a yellow gas and the most reactive of all the nonmetals.
P.	
Q.	
R.	Q , R , S and T are in different Groups but the same Period. Q is a green gas, which dissolves in water to make bleach. R is a yellow non-metallic solid. S is a metalloid used in transistors. T is a metal of low density used in aircraft construction.
S.	
T.	
U.	
V.	U , V , W and X are all transition metals. U is an excellent conductor of heat and electricity and is used in electrical wiring. V is the only metal that is a liquid at room temperature. W is the metal which is produced in the largest quantity. Although once used in coins, the yellow metal X is now used in mostly expensive jewelry.
W.	
X.	
Y.	Y and Z are both actinides. Y is used in nuclear reactor fuel. Z is used in smoke detectors, and is named after this country.
Z.	

Name _____