

CONCEPT: PERIODIC TABLE: ELEMENTAL FORMS (SIMPLIFIED)

- The elements of the Periodic Table exist in different forms in the natural world.

Monoatomic Elements: Elements that are stable alone when found in nature. (Mono = _____)

Diatomc Elements: Elements that are stable as pairs when found in nature. (Di = _____)

MEMORY TOOL Have No Fear Of Ice Cold Beer

Polyatomic Elements: Elements that are stable in numbers greater than two. (Poly = _____)

1A																		8A	
(1)																		(18)	
1	Hydrogen	2A	(2)																He Helium
2	Li Lithium	Be Beryllium	3B Boron	4B Carbon	5B Nitrogen	6B Oxygen	7B Fluorine	8B		1B Boron	2B Carbon	3A Nitrogen	4A Oxygen	5A Phosphorus	6A Sulfur	7A Chlorine	He Neon	Ne Neon	
3	Na Sodium	Mg Magnesium	(3)	(4)	(5)	(6)	(7)	(8) (9)		(10)	(11)	(12)	Al Aluminum	Si Silicon	Ar Argon	Ar Argon			
4	K Potassium	Ca Calcium	Sc Scandium	Ti Titanium	V Vanadium	Cr Chromium	Mn Manganese	Fe Iron	Co Cobalt	Ni Nickel	Cu Copper	Zn Zinc	Ga Gallium	Ge Germanium	As Arsenic	Selenium Selenium	Bromine Bromine	Kr Krypton	
5	Rb Rubidium	Sr Strontium	Y Yttrium	Zr Zirconium	Nb Niobium	Mo Molybdenum	Tc Technetium	Ru Ruthenium	Rh Rhodium	Pd Palladium	Ag Silver	Cd Cadmium	In Indium	Sn Tin	Sb Antimony	Te Tellurium	Iodine Iodine	Xe Xenon	
6	Cs Cesium	Ba Barium	La Lanthanum	Hf Hafnium	Ta Tantalum	W Tungsten	Re Rhenium	Os Osmium	Ir Iridium	Pt Platinum	Au Gold	Hg ^① Mercury	Tl Thallium	Pb Lead	Bi Bismuth	Po Polonium	At Astatine	Rn Radon	
7	Fr Francium	Ra Radium	Ac Actinium	Rf Rutherfordium	Dubnium Seaborgium	Sg Bohrium	Bh Hassium	Hs Meitnerium	Mt Darmstadtium	Ds Roentgenium	Rg Copernicium	Cn Nihonium	Nh Flerovium	Fl Moscovium	Mc Livermorium	Lv Tennessine	Ts Oganesson		



Ce Cerium	Pr Praseodymium	Nd Neodymium	Pm Promethium	Sm Samarium	Eu Europium	Gd Gadolinium	Tb Terbium	Dy Dysprosium	Ho Holmium	Er Erbium	Tm Thulium	Yb Ytterbium	Lu Lutetium
Th Thorium	Pa Protactinium	U Uranium	Np Neptunium	Pu Plutonium	Am Americium	Cm Curium	Bk Berkelium	Cf Californium	Es Einsteinium	Fm Fermium	Md Mendelevium	No Nobelium	Lr Lawrencium

EXAMPLE: Which of the following choices represents a monoatomic element that is also a chalcogen?

- a) Boron, B b) Sulfur, S c) Tellurium, Te d) Chlorine, Cl e) Lithium, Li

PRACTICE: Which of the following is a polyatomic element?

- a) Chlorine b) Oxygen c) Hydrogen d) Iron e) Selenium

PRACTICE: Which of the following is a representative element that is not diatomic in the 4th period that is a metalloid?

- a) Silicon b) Tin c) Gallium d) Chlorine e) Germanium