

Monday March 1, 2021

How is matter classified?

People once thought that all matter was made up of combinations of water, air, fire, and earth. We now know that all matter is made up of elements.

An element is a substance made up of only one type of matter. Gold, silver, and oxygen are elements. *Elements are the building blocks of matter.*

Table of Elements (Periodic Table)

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																		Chemical Group Block																	
1 H Hydrogen Nonmetal																		Atomic Number Symbol Name Chemical Group Block																	
3 Li Lithium Alkali Metal		4 Be Beryllium Alkaline Earth																5 B Boron Metalloid		6 C Carbon Nonmetal		7 N Nitrogen Nonmetal		8 O Oxygen Nonmetal		9 F Fluorine Halogen		10 Ne Neon Noble Gas							
11 Na Sodium Alkali Metal		12 Mg Magnesium Alkaline Earth																13 Al Aluminum Post-Transition		14 Si Silicon Metalloid		15 P Phosphorus Nonmetal		16 S Sulfur Nonmetal		17 Cl Chlorine Halogen		18 Ar Argon Noble Gas							
19 K Potassium Alkali Metal		20 Ca Calcium Alkaline Earth		21 Sc Scandium Transition Me		22 Ti Titanium Transition Me		23 V Vanadium Transition Me		24 Cr Chromium Transition Me		25 Mn Manganese Transition Me		26 Fe Iron Transition Me		27 Co Cobalt Transition Me		28 Ni Nickel Transition Me		29 Cu Copper Transition Me		30 Zn Zinc Transition Me		31 Ga Gallium Post-Transition		32 Ge Germanium Metalloid		33 As Arsenic Metalloid		34 Se Selenium Nonmetal		35 Br Bromine Halogen		36 Kr Krypton Noble Gas	
37 Rb Rubidium Alkali Metal		38 Sr Strontium Alkaline Earth		39 Y Yttrium Transition Me		40 Zr Zirconium Transition Me		41 Nb Niobium Transition Me		42 Mo Molybdenum Transition Me		43 Tc Technetium Transition Me		44 Ru Ruthenium Transition Me		45 Rh Rhodium Transition Me		46 Pd Palladium Transition Me		47 Ag Silver Transition Me		48 Cd Cadmium Transition Me		49 In Indium Post-Transition		50 Sn Tin Post-Transition		51 Sb Antimony Metalloid		52 Te Tellurium Metalloid		53 I Iodine Halogen		54 Xe Xenon Noble Gas	
55 Cs Cesium Alkali Metal		56 Ba Barium Alkaline Earth		-		72 Hf Hafnium Transition Me		73 Ta Tantalum Transition Me		74 W Tungsten Transition Me		75 Re Rhenium Transition Me		76 Os Osmium Transition Me		77 Ir Iridium Transition Me		78 Pt Platinum Transition Me		79 Au Gold Transition Me		80 Hg Mercury Transition Me		81 Tl Thallium Post-Transition		82 Pb Lead Post-Transition		83 Bi Bismuth Post-Transition		84 Po Polonium Metalloid		85 At Astatine Halogen		86 Rn Radon Noble Gas	
87 Fr Francium Alkali Metal		88 Ra Radium Alkaline Earth		**		104 Rf Rutherfordium Transition Me		105 Db Dubnium Transition Me		106 Sg Seaborgium Transition Me		107 Bh Bohrium Transition Me		108 Hs Hassium Transition Me		109 Mt Meitnerium Transition Me		110 Ds Darmstadtium Transition Me		111 Rg Roentgenium Transition Me		112 Cn Copernicium Transition Me		113 Nh Nihonium Post-Transition		114 Fl Flerovium Post-Transition		115 Mc Moscovium Post-Transition		116 Lv Livermorium Post-Transition		117 Ts Tennessine Metalloid		118 Og Oganesson Noble Gas	
						57 La Lanthanum Lanthanide		58 Ce Cerium Lanthanide		59 Pr Praseodymium Lanthanide		60 Nd Neodymium Lanthanide		61 Pm Promethium Lanthanide		62 Sm Samarium Lanthanide		63 Eu Europium Lanthanide		64 Gd Gadolinium Lanthanide		65 Tb Terbium Lanthanide		66 Dy Dysprosium Lanthanide		67 Ho Holmium Lanthanide		68 Er Erbium Lanthanide		69 Tm Thulium Lanthanide		70 Yb Ytterbium Lanthanide		71 Lu Lutetium Lanthanide	

LIVEWORKSHEETS

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All known elements are classified according to their properties. They are classified in periodic table of the elements. Here you see the period table.

The name of each element is in a box. The boxes are arranged according to the elements' properties.

1. What is an element?

2. How are they classified?

3. Name 3 elements.