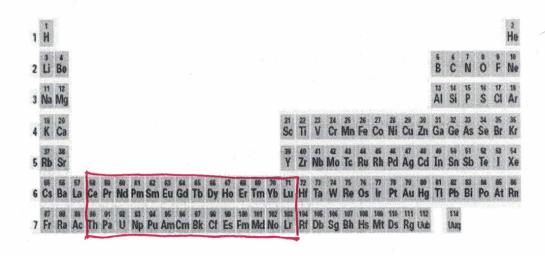
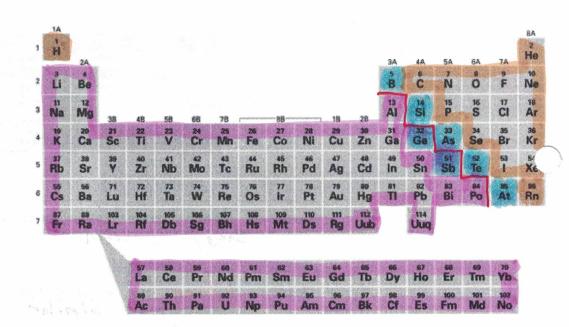
## The Periodic Table Name Period 9/19/18 Date Essential Question: How was the Periodic Table constructed, and what are the differences between the three classes of elements? Dmitri Mendeleev is credited with arranging the first version of our current day Periodic Table (1869). Mendeleev arranged the elements by increasing Atomic and similar Properties Mendeleev was the first to be able to use his table to predict the of undiscovered elements. Properties of Gallium Mendeleev's Actual predictions **Properties** Atomic mass 68 69.7 Density 6.0 g/cm<sup>3</sup> 5.9 g/cm<sup>3</sup> Appearance soft gray metal soft gray metal Melting point Low melting point 29.8° C across the table. Each *period* represents an a <u>Column</u> down the table. Each *group* represents elements that possess <u>Similar</u> properties. Group - a Column Pm Sm Eu Gd Tb Dy Ho Er Tm Yb





METALS	METALLOIDS	NONMETALS
Solid	Solid	Solids, Liquids, Gas
Shiny-Luster	Shiny/Dull	Dall
Malleable	Malleable/Brittle	Brittle
Ductile	Semiconductors	
Good Conductors		Poor Conductors (Insulators)

Summary:

(Heat & Electricity)

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