



PROPERTIES OF METALLOIDS

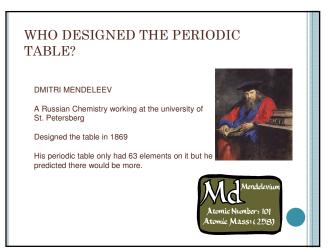


- Metalloids (metal-like) have properties of both metals and non-metals.
- They are solids that can be shiny or dull.
- They conduct heat and electricity better than non-metals but not as well as metals.
- They can be ductile and malleable or brittle.

Silicon

$\frac{Elements\ and\ Periodic\ Table}{Home\ Work}$

o Read 6.1 p 211-214 Q 1-10 p 215



HOW DID HE DESIGN THE P.T.?

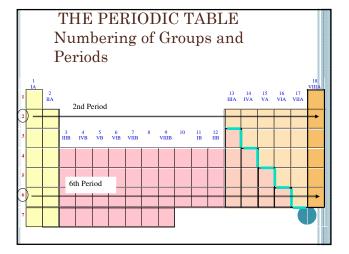
- 1. Organize the elements in terms of increasing mass
- 2. Organize the elements in columns by chemical characteristics
- 3. Assign Atomic Numbers including the blank spaces
- o Analysis
- What are the characteristics of each group?
- What trend exists on the periodic table?
- o Graph.....
- ${\bf \circ}$ Can you predict the characteristics of the

THE CURRENT PERIODIC TABLE

 Now the elements are put in rows by increasing mass and

•ATOMIC NUMBER!!

- o The $\frac{\text{horizontal rows}}{\text{are called PERIODS}}$ and are labeled from 1 to 7.
- o The $\underbrace{\text{vertical columns}}_{1 \text{ to } 18.}$ are called **GROUPS** are labeled from 1 to 18.



FAMILIES ON THE PERIODIC TABLE

- Columns are also grouped into families.
- Families may be one column, or several columns put together.
- Families have names rather than numbers. (Just like your family has a common last name.)



