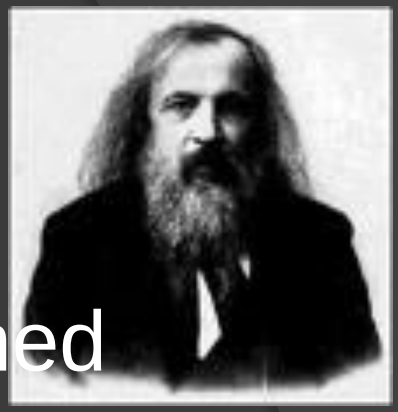
THE PERIODIC TABLE

What is the Periodic Table?

- The modern periodic table is a table used to organize chemical elements by atomic number

- Reimagining the Periodic Table

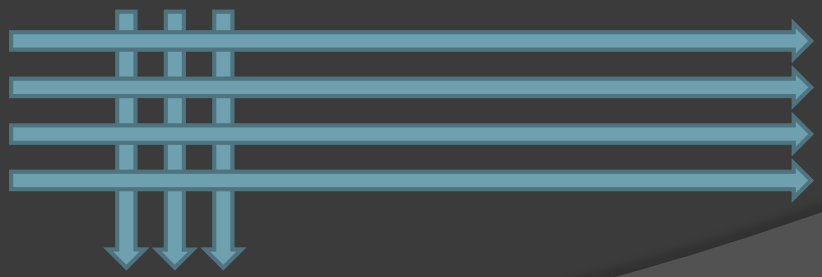
Dmitri Mendeleev



- In 1869, Dmitri Mendeleev published the first periodic table
- He listed the elements in order of increasing atomic mass and left spaces for elements that had yet to be discovered – he was able to predict both the mass and properties for unseen elements!
- Mendeleev

How is the periodic table organized?

- Rows going across (⟷), are called periods
- Columns, going up and down (↕) are called groups or families
- Groups/families are organized together based on shared characteristics such as reactivity.



ROWS = "PERIODS"

COLUMNS = "GROUPS" OR "FAMILIES"

Periodic Table Song

- https://www.youtube.com/watch?v=rz4Dd1I_fX0&ab_channel=AsapSCIENCE

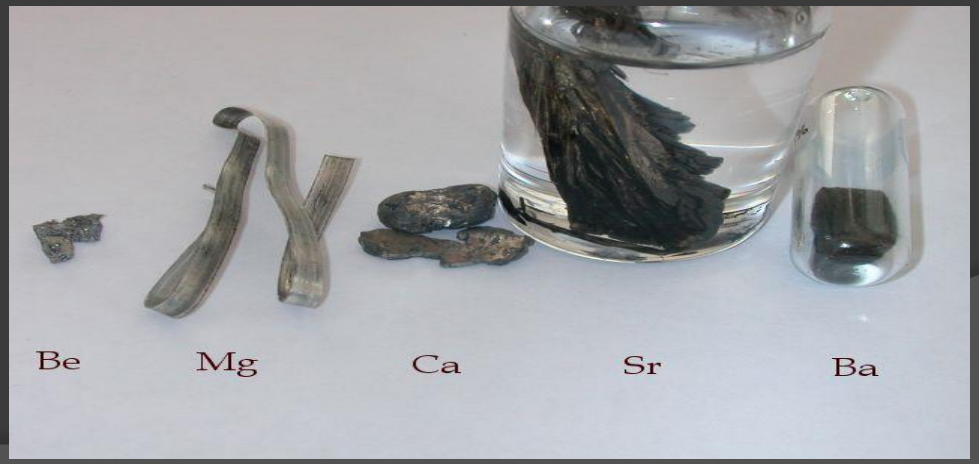
What are the families on the periodic table?

Group	Group Name	Reactivity	Elements in this Group
1	Alkali Metals	Very reactive metals	Hydrogen, lithium, sodium, potassium, rubidium, cesium, francium

Alkali Metals

What are the families on the periodic table?

Group	Group Name	Reactivity	Elements in this Group
2	Alkaline Earth Metals	Somewhat reactive metals	Beryllium, magnesium, calcium, strontium, barium, radium

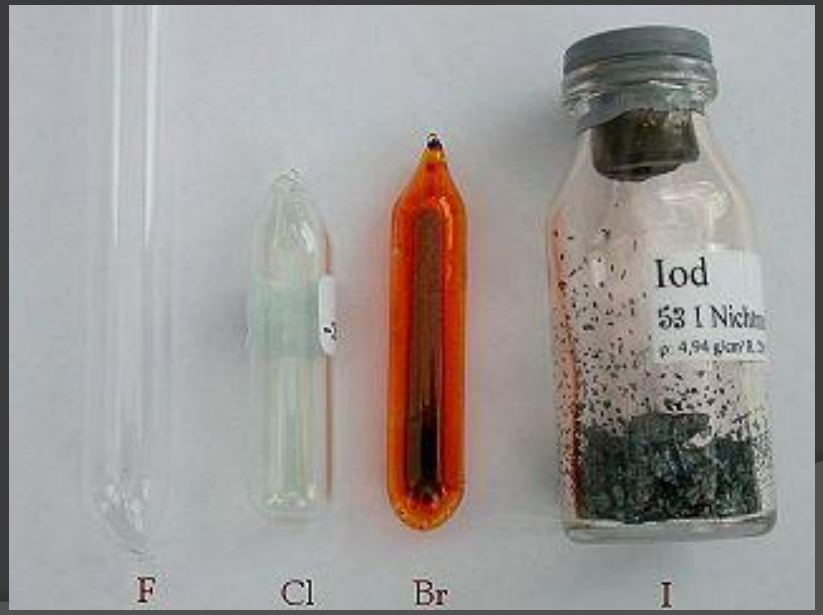


What are the families on the periodic table?

Group	Group Name	Reactivity	Elements in this Group
3-12	Transition metals	Variable	

What are the families on the periodic table?

Group	Group Name	Reactivity	Elements in this Group
17	Halogens	Very reactive non-metals	Fluorine, chlorine, bromine, iodine



What are the families on the periodic table?

Group	Group Name	Reactivity	Elements in this Group
18	Noble Gases	Very non-reactive gases	Helium, neon, argon, krypton, xenon