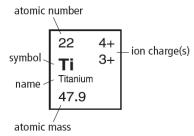
Name:			
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<u>Science 8</u> <u>Notes on the Periodic Table of Elements</u>

The Periodic Table provides information on the **physical and chemical** properties of elements



Atomic Mass - <u>mass of average atom</u>
Atomic Number - <u>number of protons</u>
Ion Charge - <u>electric charge that forms when an atom gains or loses electrons</u>

Periodic Table Metals, Non-metals, Metalloids

Period table has interesting patterns

Due to Mendeleev's organization, interesting patterns are created, such as the groups: metals, non-metals and metalloids.

	State at Room Temperature	Appearance	Conductivity	Malleability and Ductility
Metals	 solid except for mercury (a liquid) 	shiny lustre	 good conductors of heat and electricity 	malleableductile
Non-metals	some gasessome solidsonly bromine is a liquid	not very shiny	poor conductors of heat and electricity	brittle not ductile
Metalloids	• solids	can be shiny or dull	may conduct electricity poor conductors of heat	brittle not ductile

Periods and Families

Each horizontal row in the periodic table is a <u>period</u>

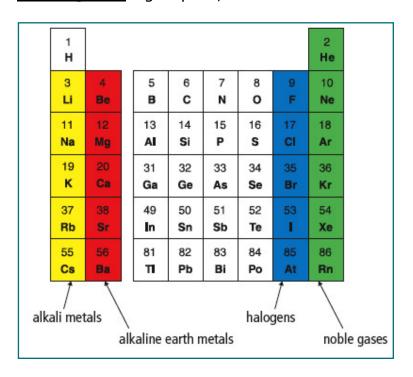
Vertical columns form groups or <u>chemical families</u>

<u>Alkali metals</u> - highly reactive group 1

<u>Alkaline earth metals</u> - group 2, burn in air if heated

<u>Halogens</u> - group 17, highly reactive non-metals

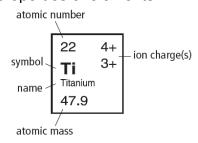
<u>Noble gases</u> - group 18, stable and unreactive non-metals



Name:		
Blk:	Date:	

<u>Science 8</u> <u>Notes on the Periodic Table of Elements</u>

The Periodic Table provides information on the _____properties of elements



Atomic Mass	
Atomic Number -	
Ion Charge -	

Periodic Table Metals, Non-metals, Metalloids

Period table has interesting

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Periods and Families

Each horizontal row in the	periodic table is a
Vertical columns form grou	ips or
	highly reactive group 1
	group 2, burn in air if heated
	group 17, highly reactive non-metals
	- group 18, stable and unreactive non-metals

