

Periodic Table Search

On the periodic tables provided, locate the following using colored pencils, cross-hatching, or labels. Draw in the demarcation line (staircase), periods, and group numbers on both sets before you begin.

USE THE FIRST PERIODIC TABLE

- Identify the parts of the chart which contain
 - metals
 - nonmetals
 - metalloids (semi-metals)
- Identify the following families (groups)
 - alkali metals (note: hydrogen is NOT an alkali metal)
How many valence electrons do alkali metals have? _____
How many valence electrons do alkali metals lose to obtain an octet? _____
 - alkaline earth metals
How many valence electrons do alkaline earth metals have? _____
How many valence electrons do alkali metals lose to obtain an octet? _____
 - noble gases
How many valence electrons do noble gases have? _____
 - halogens
How many valence electrons do halogens have? _____
How many valence electrons do halogens gain to obtain an octet? _____
- Identify the location of all the members of Group 3A
- Identify the location of all the members of the 4th period
- Identify the location of all the members of Group 5A
- Identify the location of all the members of the 6th period

USE THE SECOND PERIODIC TABLE

- Identify the transition elements (B group elements).
- Locate the inner transition elements.
- Identify the members of the
 - Lanthanide series
 - Actinide series
- Find the representative elements (main group elements, A group elements).