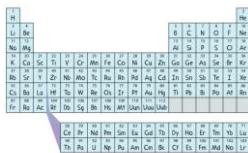


The Periodic Table

- Each element designated by its atomic symbol.
- Usually from symbols name but sometimes from Latin name.
- Only capitalize first letter.



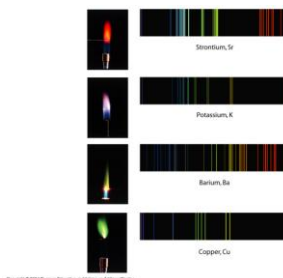
Atoms are small.

- There are as many atoms of air in your lungs at any moment as there are breaths of air in the Earth's atmosphere.
- There are more atoms in a thimble full of water than there are thimbles of water in the ocean.
- There are more atoms in a single apple than there are apples that can fit inside the earth.

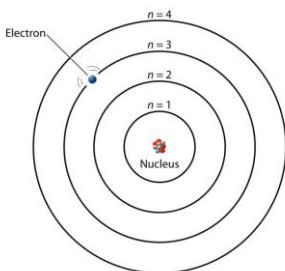
The Study of Spectra.

- Every atom can only emit or absorb certain energies or wavelengths.
- Scientists use instruments called spectrometers to study the location and spacing of emission and absorption (spectral) lines in specific wavelengths.
- Sometimes used to detect any atoms or molecules that may be present in a target material.

Some Emission Spectra



Example



The Electromagnetic Spectrum

Color, or frequency, is related to energy.

