

## The Road to the 6 Kingdoms...

(page 104-105)

- Aristotle organized life into 2 large groups (“kingdoms”).... “**Plantae**” and “**Animalia**”  
(Still used to classify today, other people subdivided kingdoms into finer groups based on habitat, special structures, or how they move)
- inventing the microscope changed that simple idea....life could now be microscopic ! 1866.... 3<sup>rd</sup> Kingdom “**Protista**”
- understanding fungi more...they aren’t plants after all, they aren’t photosynthetic.... 4<sup>th</sup> Kingdom “**Fungi**” was added to the classification plan
- simple, prokaryotic cell species discovered virtually everywhere... 5<sup>th</sup> Kingdom “**Monera**” was added.
- 1990's....ancient species of prokaryotes discovered with unique structures and adaptations for harsh environments like hot

water vents...so a 6<sup>th</sup> Kingdom “Archaea” was added to the classification plan.

Today’s modern classification plan continues to change with new discoveries...check out the explanations of each grouping.....

Visit <http://www.greennature.ca/?q=node/13> now, before continuing the notes...write this new classification list in your notebooks !

A new “**Domain**” taxon has been created ABOVE the Kingdom level, and each other taxon is being further subdivided as we learn more about the differences / similarities between groups from new evidence.

Using pages 106 - 107...explain what a “domain” is, identify the three domains of life, and explain how they are different.