

The Five Kingdoms

Directions: Using a text book, please define the following terms and answer the questions. Use that information to complete the chart on the back of this sheet. Thank you.

Define *Heterotroph*:

Give an example of a *heterotroph*:

What process is involved in getting food into cells? (Think about water getting into a sponge)

Define *Autotroph*:

Give an example of an *autotroph*:

What process is used to produce food molecules in most autotrophs? (What process in plants uses light?)

Define *Prokaryotic*

Give an example of a *prokaryotic* organism

Define *Eukaryotic*

Give an example of a *eukaryotic* organism

What structure within a cell should we look for in *eukaryotic* cells?

Define *Multicellular*

Give an example of a *multicellular* organism

Define *Unicellular*

Give an example of a *unicellular* organism

Correctly using as many of the terms above, describe yourself:

Fill in the chart:

Kingdom					
Nucleus? (Indicate type of cell)					
Body plan/# of cells					
Cell wall?					
Auto or heterotroph?					
Nervous system?					

Note: Kingdom *Monera* has fallen out of favor with most taxonomists. Not because we don't like bacteria (They actually make life as we know it possible). More because there's a better way to describe them at the domain level. This text book doesn't cover domains so we'll discuss it **next class** before **we take the quiz**