***Chapter 1 lesson 1 pgs. 28-34***

***From Cells to Systems***

Terms:

***Cell:*** the smallest part of a living thing

***Organ:*** tissues working together

***Organ System***: organs working together

***Tissue:*** similar cells working together

***Cell Wall:*** rigid outer covering of plant cell

***Reproduce***: to make more of one kind

***What do living things have in common?***

* Living things: people, plants, and animals
* All living things are made of ***CELLS***
* Five Basic Jobs/Life Functions:
  + Need food for energy
  + Grow and develop
  + Reproduce
  + Get rid of waste
  + Respond to environment

***How do plant and animal cells compare?***

* Plant’s contain **chlorophyll**; captured by **Sun’s energy** to make **food**
* Animal’s **can not** make their own food b/c they don’t contain **chlorophyll**

***How are cells grouped?***

* they are grouped by the job they do

1. **cell wall**- protects and supports
2. **chloroplast**- factory that makes food for **PLANTS**
3. **nucleus-**  the “brains” of the cell; controls everything
4. **vacuole**- like a vacuum- sucks up & stores food, water, and wastes
5. **cell membrane**- thin outer covering outside the cell, but inside the plant’s cell wall
6. **cytoplasm**- jelly-like filling in the cell

***How can you see cells?***

A **microscope** makes something that is **small** look much **larger**