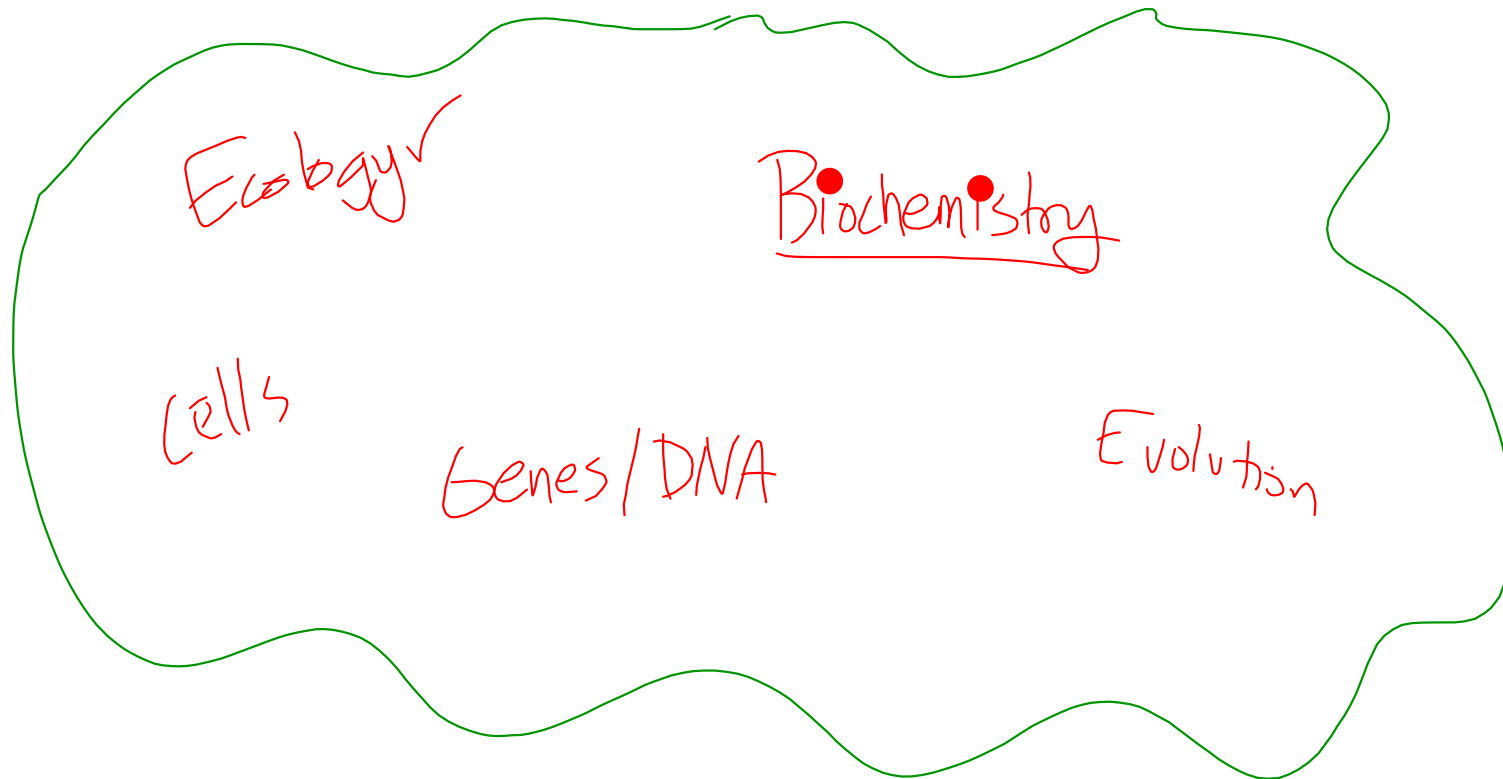


Big picture:

BIOLOGY



# BIOCHEMISTRY:

- Why do we not collapse into blobs of goo?
  - The chemicals in our bodies determine
    - STRUCTURE
    - SHAPE
    - ARRANGEMENT
    - FUNCTION
- } of everything...  
molecules, cells,  
organs, tissues

Biochemistry is:

- Atoms, ions, and molecules that make up living organisms
- Chemical and physical properties of these
- Function — physical & chemical

## MIXTURES: (Potions Lab)

- Combinations of two or more substances
- Things will mix differently depending on their physical and chemical properties
- The charge (electrical) on the outside of molecules plays a big role in this

Combine one "container" ingredient (oil, alcohol, or water) with one "add-in" ingredient and observe the results.

3 containers  $\times$  8 add-ins : 24 mixtures