**Cell Types**

Today in Science class, Mr. Smith taught us about cell types.

Things I learned:

* Cell Types:
  + Prokaryote Cell:
    - Prokaryotes are molecules surrounded by a membrane and cell wall. Prokaryotic cells lack characteristic Eukaryotic sub cellular membrane enclosed “organelles”, but may contain membrane systems inside a cell wall.
  + Eukaryotic Cell:
    - The basic Eukaryotic cell contains the following:
      * Plasma membrane around their nucleus
      * Cytoplasm (the semi-fluid substance inside the membrane)
      * Has a cytoskeleton – the microfilaments and microtubules that suspend organelles, this gives it shape, and allows for the cell’s motion.
      * Has membrane enclosed sub-cellular organelles.
  + Virus Cells have:
    - Spikes
    - Envelope
    - Protein Coat
    - Genetic Material
* Cell Mitosis:
  + When a cell divides, it goes through 5 steps, and ends up with 2 daughter cells:
    - Interphase
    - Prophase
    - Metaphase
    - Anaphase
    - Telophase
  + In Metaphase, the DNA of the cell is copied and put in the new cell.
  + Cells DO NOT have a gender.
* Cell Movement:
  + Some cells use something called Cilia to move, such as paramecium.
  + Some cells use something called a Flagellum to move.
  + This flagellum is a whip-like tail.
  + One organism that uses this to move is called Chlamydomanas.
  + An amoeba just flows its body into the direction that it wants to go.
  + In Latin, an amoeba is called a pseudopod.

