**Questions to answer:**

1. How does the structure of the cytoskeleton contribute to its function?
2. Diagram an individual phosopholipid and a bilayer of phospholipids.  Label the hydrophillic head, and hydrophobic tails in both.
3. Explain the Fluid Mosaic model of the cell membrane and describe the functions of the proteins that are embedded in the membrane.
4. Diagram the cell membrane.  Label the following parts: lipid bilayer, integral proteins, peripheral proteins, cholesterol, cytoskeleton, extracellular matrix, glycoproteins, glycolipids.  Explain the function of each part of the cell membrane in contributing to the functioning of the cell.
5. If cells can not visually inspect other cells, how do the cells of our immune system know if a particular cell they encounter is part of us or part of another organism?

**Things you should make sure you understand:**

**(feel free to ask questions about them in class)**

* The structure and function of cillia and flagella.
* The structure and functions of the three major components of the cytoskeleton (microfilaments, microtubules, and intermediate filaments).
* Why particular substances will or will not be able to pass through the phospholipid bi-layer of the cell membrane.
* How membrane-protein structure can allow for portions of the protein to be embedded in the membrane AND allow portions to extend in to and out of the cell.
* The structure and function of the cell wall.
* The structure and function of the extracellular matrix.
* The differences in structure and function among the types of intercellular junctions found in cells (tight junctions, gap junctions, desmosomes, and plasmodesmata)