Exam #2 Focal Topics

The chemistry of water

Structure

Polarity

Properties

Biological macromolecules (lipids, carbohydrates, nucleic acids, & proteins)

Carbon based molecules

Bohr models

Lewis dot structures

Using dot structures to draw structures

Valence electron usage

Ionic & covalent bonding

Cell structure – organelles (Cell city)

Prokaryote (bacteria) vs. Eukaryote cells

Membrane structure and function

Types of Membrane transport

Osmosis

Diffusion (or passive diffusion)

Facilitated diffusion

Active transport

Cell tonicity in varying concentrations of solutions

Isotonic

Hypotonic

Hypertonic

How to study:

1. Formula for acing this exam… At least 1.5 hours of studying per hour of class time covering the material

12 hrs. class time X 1.5 = 18 hrs. studying

This means an average of 3 hours per night if you want to ace this exam.

1. Review all work that has been returned and practice all problems
2. Re-read all your cornell notes on the lessons
3. Retry any simulations or watch any animations that we did along the way.

Own the material…be a rock star! Cuz u are!