

Study Guide Semester 1 Final

Vocabulary: These are terms you need to know to understand the “language” of the questions and answers. Please be careful! Knowing what the terms mean is **just the beginning** of what will be on the test.

1. Eukaryote, Prokaryote, Bacteria, Cell wall, Cell membrane, Mitochondria, Cytoplasm, Ribosomes, Rough ER, Smooth Er, Golgi apparatus, Lysosomes, Nucleus.
Tip: You can find all these terms in your text, ch.7-3 and you can look at your powerpoint notes (power point is on my website under the tab notes/slides)), also go over your colored worksheets of the animal and plant cell.
Know what the organelles look like and what they do.
2. Hypotonic, hypertonic, isotonic, osmosis, diffusion, active transport, passive transport, facilitated diffusion, simple diffusion, saline solution, selectively permeable, polar and non-polar molecules, homeostasis

Concepts:

You should understand the cell membrane, what it is made of and how this structure allows the cell to maintain homeostasis by controlling what goes in and out.

Understand **how** the membrane controls and maintains homeostasis

Understand the roles of proteins in the cell membrane

Know how transport across the cell membrane works and all the different ways it can happen.

Be able to give **a specific** example of each type of transport.