

Chapter 8 Test: What to Know

Test Part 1:

- Location, name & function of organelles & nuclear structures

Test Part 2:

- Hooke & Van Leeuwenhoek
- Cell theory
 - 3 principles
 - What it applies to
 - Prokaryote & eukaryote differences/similarities
- Cell organelles
 - Compare/contrast plant vs animal cells
- Movement across membrane
 - Solutes and solvents – be clear
 - Diffusion
 - Definition
 - How and why it occurs
 - Osmosis
 - Definition
 - Hypo-, hyper- and isotonic dynamics
 - Be able to apply concept in hypothetical situations
 - Facilitated diffusion
 - Definition
 - Structures involved
 - Active transport
 - Definition
 - Structures involved
- Energy requirements of each 4 types of movement
- Cell specialization/levels of organization in multicellular organisms
- Microscope magnification
 - Light microscope
 - Maximum magnification possible
 - Electron Microscope
 - Scale at which objects are magnified