

## UNIT 2 Test: What to Know about Cells

1. Cell Labs: Microscope parts, lab procedure, estimating size, lab content
2. Cell theory –
  - a. Name and contribution of the scientists whose work helped our understanding of cells
  - b. 3 principles; what it applies to
3. Prokaryote & eukaryote differences/similarities
4. Cell organelles
  - a. Location, name & function of organelles & nuclear structures – lots of questions about these!!
  - b. compare/contrast plant vs animal cells
  - c. POGIL
5. Movement across membrane
  - a. Solutes and solvents – definitions
  - b. Diffusion – definition, how and why it occurs
  - c. Osmosis – definition, hypo-, hyper- and isotonic dynamics, be able to apply concept in hypothetical situations
  - d. Facilitated diffusion – definition, structures involved
  - e. Active transport – definition, structures involved
  - f. Energy requirements of each 4 types of movement
  - g. POGIL
6. Cell specialization/levels of organization in multicellular organisms