Unit 3 - The Cell

Homework/Activities

- **Engage: Cells - Under the Microscope** Due: _____
  Process and Procedures #1-7 (for both Parts A and B)
  Analysis #1-4
- **Explore: Cells - Structure & Function** Due: _____
  Process and Procedures: Part A #1-5, Part B #1-2
  Analysis: #1-7
  Analysis: #5-6 from Engage section
- **Explain: The Membrane** Due: _____
  Process and Procedures: teacher led discussion
  Analysis # ?
- **Elaborate: Chloroplasts and Mitochondria** Due: _____
  Process and Procedures # ?
  Analysis # ?
- **Evaluate: Cell Specializations (and Jobs)** Due: _____
  Process and Procedures - 16 stations

Concepts/Topics

- Cell Theory and cell size (and why bugs can't be giants)
- Levels of organization in a complex multicellular organism (cells, tissues, organs, organ systems, organisms)
- Cell structure and function (including specializations)
- Membrane transport - diffusion, osmosis, fac. diffusion, active transport (pumps/endo/exocytosis)
- Photosynthesis: basic definition, importance and overview
- Glycolysis, Fermentation, Respiration - Krebs cycle, ETC

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