

- **Respiration Unit Objectives: by the end of this week, students will be able to...**
- List the parts of the mitochondria and where each step of respiration occurs in the cytosol/mitochondria.
- State the differences and similarities between substrate-level phosphorylation and oxidative phosphorylation.
- Identify the roles of glucose, pyruvate, NAD<sup>+</sup>/FAD<sup>+</sup>, the TCA cycle, the Electron Transport System, hydrogen, ATP Synthase, and oxygen.
- List 5 ways to increase ATP production
- Summarize the 4 steps of respiration: Glycolysis, TCA cycle, Electron Transport System, and Oxidative Phosphorylation.