

## Bio 8.1

### Goals

- \* Order the three steps of cellular respiration, describing the inputs and outputs of each
- \* Characterize the role of enzymes in cellular respiration

### Plan

Lab: Catalase

Where does fat go when it is “burned?” (5 min)

*Video:* When You Burn Fat, Where Does it Go? (5 min)

The story of sugar (15 min)

*Video:* ATP & Respiration: Crash Course Biology #7 (15 min)

Cell respiration questions (remainder)

## Bio 8.2

### Goals

- \* Describe the process in each stage of cellular respiration
- \* Describe the input and output of each stage of cell respiration

### Plan

Reminder of cellular respiration steps (5 min)

Overview of cellular respiration

    Glycolysis

    Krebs cycle

    Electron transport chain

*Video:*

Hero's journey activity

## Bio 8.3

### Goals

- \* Describe the importance of mitochondria to cell respiration
- \* Experiment with the necessary conditions for cell respiration

### Plan

Cell respiration overview (10 min)

*Video:* Cellular Respiration and the Mighty Mitochondria (10 min)

The electron transport chain (5 min)

*Video:* Oxidative phosphorylation (10 min)

The ATP synthase and the contribution of mitochondria (10 min)

*Video:* ATP synthase (5 min)

    Bring up ethanol fermentation

    Question: What could be used to distinguish ethanol fermentation from cellular respiration?

