

Energy Cycle Essential Questions

1. What are the reactants and products for photosynthesis?
2. What organisms are doing photosynthesis? What is the organelle that these organisms have to do this process in their cells?
3. What are the reactants and products for cellular respiration?
4. What organisms are doing cellular respiration? What organelle do these organisms have that helps them to do this process in their cells?
5. What is the energy molecule used by all living things?

Photosynthesis Essential Questions

1. What is the function of a chloroplast?
2. What is the role of pigments? Why are most plants green?
3. What are the two processes of photosynthesis called?
4. What are two products of the light reaction that are used in the Calvin Cycle?
5. Where does the light reaction occur?
6. From the overall chemical equation of photosynthesis, identify the reactant and product that are part of the light reaction.
7. Where does the Calvin Cycle occur?
8. What is produced in the Calvin Cycle?

Anaerobic Respiration Essential Questions

1. Describe the process of glycolysis and how much ATP is produced.

Aerobic Respiration Essential Questions

1. What happens to the C, H, O of glucose in the Citric Acid Cycle? How much ATP is produced in this cycle?
2. What happens to the H in the Electron Transport process? What is the enzyme that produces the ATP and how much ATP is produced?
3. What is the step of aerobic respiration that is the same as anaerobic respiration? How much ATP is produced in this step?