

Answers Pogil Activity: Glycolysis and the Krebs Cycle

1. Refer to Model 1.
 - a. What molecule from food is the primary reactant for glycolysis?
 - i. Glucose
 - b. How many carbon atoms are in that reactant molecule?
 - i. Six carbon atoms
2. The carbon atoms from glucose end up in pyruvate molecules as a product of glycolysis.
 - a. How many carbon atoms are in a pyruvate molecule?
 - i. Three carbon atoms
 - b. How many pyruvate molecules are made from each glucose molecule?
 - i. Two pyruvate molecules are made from each glucose molecule.
3. Does the process of glycolysis require an input of energy? Provide specific evidence from Model 1 to support your answer.
 - a. Glycolysis needs two ATP molecules to convert glucose.
4. Refer to Model 1. Propose an explanation for why the author of this activity put PGAL at the highest point in the Model 1 diagram.

The PGAL molecule has a higher potential energy than the glucose molecule. The energy from the ATP energy converting into ADP increase the potential
5. Does pyruvate have more or less potential energy than glucose? Provide specific evidence from Model 1 to support your answer.
 - a. Pyruvate has less potential energy than glucose, in the model we see an arrow that indicates the amount of potential energy in the step of the process. In the model, pyruvate is indicated to have a lower potential energy level.
6. What is the net production of ATP by glycolysis?
 - a. The net gain of ATP in glycolysis is two.
7. What molecule acts as an electron acceptor in glycolysis?
 - a. NADH

Pogil Cellular Respiration Glycolysis Answer Key

Jimmy Graves



Pogil Cellular Respiration Glycolysis Answer Key:

Glycolysis 247 Success Secrets - 247 Most Asked Questions on Glycolysis - What You Need to Know Jimmy

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