**STUDENT NAME:**

Quick Check: KNOW YOUR ENZYMES!

1. Enzymes are made up of what macromolecule?

a. Protein

b. Carbohydrate

c. Fat

d. DNA

2. An enzyme \_\_\_\_\_\_\_\_\_\_\_.

a. Makes a reaction go slower

b. Decreases the energy needed for a reaction

c. Is used up during a chemical reaction

d. Can act on many substrates

3. A scientist is catalyzing a reaction with an enzyme that works best at pH 6. When he tries to use it in a solution of pH 8, he can no longer catalase the reaction. What could cause this difference?

a. Change in pH made the enzyme dissolve

b. There was a decrease in the activation energy for the reaction

c. There was too much substrate

d. The active site changed shape

4. Soy milk is a popular substitute for cow milk in the United States. Soy milk contains the sugar sucrose, which is acted upon by the enzyme sucrase. Cow milk contains the sugar lactose which is acted upon by lactase. Darrell has a condition where she does not create the sucrase enzyme but does produce lactase?

a. Which milk do you recommend Darrell to drink?

b. Why can’t lactase substitute for sucrase to digest sucrose?