

Factors Affecting Enzyme Activity Handout

As you work your way through the factors affecting enzyme activity lesson, answer the following questions to help you collect the relevant information.

1. What are the four factors that affect enzyme activity?

2. Describe how enzyme concentration affects enzyme activity. Draw a graph depicting the relationship between enzyme concentration and rate of reaction.

3. Describe how temperature affects enzyme activity.



4. Describe how substrate concentration affects enzyme activity. Draw a graph depicting the relationship between the substrate concentration and the rate of reaction.

5. Describe how pH levels affect enzyme activity. Provide an example by using a graph depicting the relationship between optimal pH and relative activity.



6. Based on what you have learned about the effect of temperature on enzymatic activity, why do you think that organs and tissues for transplantation are cooled? s