**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**