

# Enzyme Activity Pre-Lab Assessment

1. Describe the role of an enzyme in a chemical reaction.
2. What kind of macromolecule is an enzyme?
3. What is significant about an enzyme's shape?
4. What is a substrate? Where on the enzyme will the substrate bind?
5. What is a product? As a reaction proceeds, do you anticipate more or less of the product to be present?
6. Write the reaction that amylase catalyzes. Be sure to indicate what the substrate is and what the product is.
7. In humans, where is amylase produced in the body?



8. How do the following environmental conditions impact enzyme function?

a. Temperature

b. pH

9. You can measure the amount of \_\_\_\_\_ remaining or \_\_\_\_\_ produced as an indicator of enzyme activity.

10. What is a colorimetric assay?

11. You will use the \_\_\_\_\_ reagent to indicate how much maltose is present.

12. Using the spectrophotometer you can measure the absorbance of light by a sample. This absorbance will tell you what?

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