

Name: ..... Date: .....

## Enzymes Review Worksheet

This worksheet will be due at the beginning of class on the day of the test.

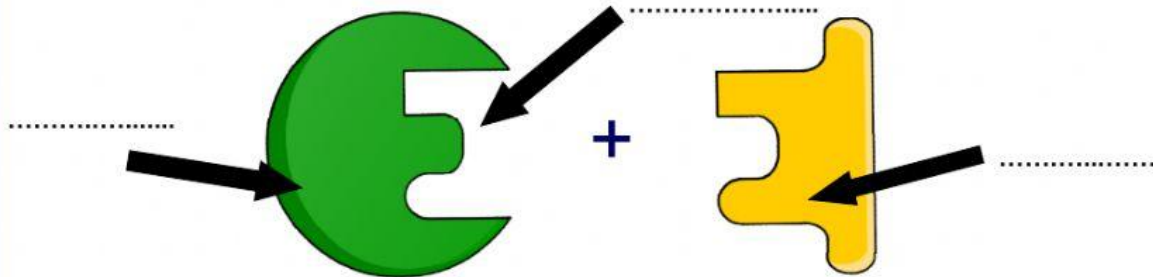


**1. a) Fill in the gaps in the following sentences using the words in the box below.**

- i) Enzymes are biological ..... that speed up chemical reactions in living organisms.
- ii) Enzymes are protein molecules, which are made up of long chains of .....
- iii) The sequence and type of amino acids are ..... in each protein, so they produce enzymes with many different shapes and functions.
- iv) The shape of an enzyme is very important to its .....

different	catalysts	function	the same	amino acids
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**b) Label the image below with the following terms: active site, substrate, enzyme.**



- 1. a) Enzymes and their substrates are often compared to a lock and key. This is called the Lock and Key Model. Label the lock and key in the image above.
- 2. b) Explain what would happen if a substrate molecule with a different shape to the enzyme came into contact with the enzyme's active site.

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