

Enzymes

LT_3 Explain how chemical reactions are affected by enzymes.

1. Why would most chemical reactions within organisms be impossible under normal cell conditions? (list one reason from the reading):
2. In living organisms, **enzymes work as catalysts** - what is a catalyst?
3. Enzymes work by lowering the _____ of chemical reactions.
4. Define **activation energy**:
5. Come up with your own analogy or example of activation energy:
6. Enzymes can catalyze up to several _____ reactions per _____.
7. A typical _____ might take _____ or even _____ to occur under normal _____ without an enzyme, but _____ than a _____ with an enzyme.
8. How do enzymes aid in cellular processes?
9. A _____ is the _____ or _____ on which the enzyme acts.
10. Enzymes are _____ in most of the _____ that take place in _____.
11. What is an important function of enzymes in animals?