

Which of the following most accurately describes how temperature affects enzyme activity?

- A The greater the temperature, the greater the enzyme activity.
 - B The lower the temperature, the greater the enzyme activity.
 - C Enzyme activity increases with temperature, but only up to a point.
 - D Enzyme activity decreases with temperature, but only down to a point.
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An increase in temperature increases the rate of a reaction by increasing the frequency of collisions between enzymes and reactant molecules. However, above a certain temperature, the hydrogen bonds that give the enzyme its distinctive shape begin to break and enzyme activity drops off.

Answer **C**.