

## How do enzymes work?

Use your ideas about the structure of enzymes.  
Explain, with diagrams:

1. How enzymes catalyse reactions
2. Why enzyme action is usually specific to a particular substrate
3. Why enzyme activity is affected by heat and by a change of pH.

You may find the following **key words** and **phrases** helpful in writing your account.

active site

amino acid sequence

bind

change shape

different shape

hydrogen bonds

induced dipole – instantaneous dipole

ionic interactions

primary structure

R - groups

matching shape

tertiary structure

vibrate

weak bonds