

5 Enzymes and the lock and key – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

5.1 A substance that speeds up a chemical reaction but is not used up by it.

5.2 Protein.

5.3 The active site.

5.4 It works on only one kind of substrate (only that substrate fits its active site).

5.5 It is unchanged and can be used again.

5.6 The protein molecule has a different shape, so it does not fit the enzyme's active site (the "lock"). The enzyme is **specific** —only its matching substrate (starch) fits —so it cannot act on protein.