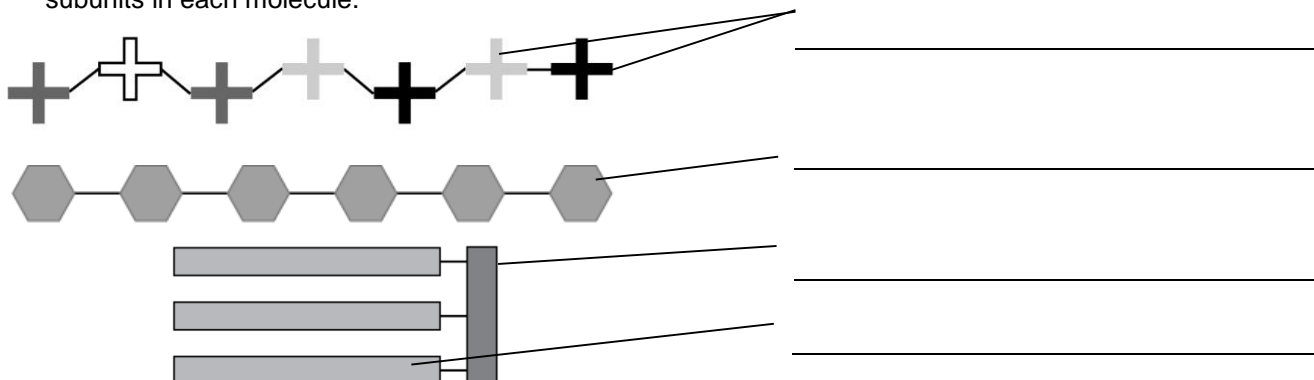


Name _____ Class _____ Date _____

- 1 The diagram shows some large organic (biological) molecules. Add labels to the lines to identify the subunits in each molecule.



- 2 Which kind of large organic molecule are enzymes? _____
- 3 Enzymes are **biological catalysts**. Explain what this means.

- 4 Amylase is a digestive enzyme found in humans.

a In which parts of the human digestive system is amylase found?

b Which carbohydrate, found in foods such as pasta, is the substrate for amylase?

c Describe the effect of amylase on this molecule.

- 5 Some enzymes catalyse reactions in which a molecule is synthesised. Explain what this means.

- 6 The table shows the results of an investigation into the effect of an enzyme called starch synthase on 'activated' glucose solution. At each time, one drop of mixture was mixed with one drop of iodine solution.

Time since enzyme and glucose mixed (min)	0	2	4	6	8	10
Colour of mixture	yellow	yellow	slightly blue	quite blue	dark blue-black	dark blue-black

Explain what the results show.
