

Solutions

Each answer shows the steps, then the **result**.

2.1

- A long chain of repeating monomers

2.2

- A water molecule

2.3

- Carbohydrates, lipids, nucleic acids, proteins

3.1 B

- hydrolysis

3.2

(a)

- Dehydration synthesis; a water molecule is removed at each bond

(b)

- By hydrolysis — adding water to break the bonds back into glucose

3.3

- Dehydration synthesis **removes** water to form a bond and build a polymer; hydrolysis **adds** water to break the bond — each reverses the other