

1 Water and the molecules of life – Part 1 —Answers

Answers

Work through these after you have tried the questions yourself.

2.1 its oxygen pulls the shared electrons more strongly than its hydrogens, so one end is slightly negative and the other slightly positive.

2.2 carbon can form four stable bonds, so it builds long chains, branches, and rings.

2.3 (a) dehydration synthesis (condensation); (b) hydrolysis.

2.4 carbohydrates: store energy (or give structure, like cellulose); lipids: store energy (or build cell membranes).

2.5 "hydrophobic" means it does not mix with water; an example is a fat (lipid) or oil.