



1. Classes of biological macromolecules: Solutions

Classes

As you know, there are four major classes of biomolecules: nucleic acids, lipids, carbohydrates and proteins. Which classes are represented in the structures below?

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Functions

Tick as appropriate. For proteins, also provide examples from the list below (feel free to look up their functions if you don't know). Several examples per function and several functions for a certain protein are possible.

Example proteins: collagen, keratin, dopamine receptor, somatotropin, haemoglobin, microtubules, DNA polymerase, antibodies

	Carbohydrates	Proteins	Lipids	Nucleic acids
Source of energy	V	(only as a last resort)	V	
Energy storage	V		V	V