

1.1

Choose one property of water. **Explain** how the polarity of water results in the property you chose. **Explain** how the property is important to biological organisms.

1.2

Describe the composition of macromolecules, specifically the primary elements that they are made from.

Describe the architecture of proteins, carbohydrates and nucleic acids are similar and how their architecture differs from lipids.

1.3

Describe the process that builds monomers and the process that breaks apart polymers. **Explain** why these processes are important to living organisms.

1.4

Describe the structural components of a nucleotide. **Compare** the phosphodiester bonds with the hydrogen bonds found in nucleic acids.

1.5

Describe how changing one amino acid in a protein can potentially change the structure of the entire protein.

1.6

Compare (similarities and differences)
DNA and RNA polymers.