

Module 2: Basic Components of living organisms

Biological Molecules

Date set:

Date due:

Big Question: Why do the properties of water make it an excellent transport medium?

Scenario: The characteristics and properties of water are crucial in sustaining life. Water can act as a solvent, as a transport medium in plants and animals, as a coolant and it has cohesive properties.

Task: Your task is to write a report that summarises how properties of water make it an ideal transport medium.

You should include:

- A description of the structure of water, including diagrams.
- Why water is a polar molecule.
- At least four properties of water and why these properties make water such a good medium for transport.
- The following key terms: **hydrogen bonding, hydrophilic and hydrophobic, solvent, coolant, habitat, density, surface tension, specific heat capacity, capillary action.**

Your work needs to:

- be fully referenced in the text and a complete list of references, as a bibliography or a reference list included at the end of your work.
- Include hand drawn diagrams
- Handwritten - not typed
- Be a maximum of two sides of A4, unless you have very large handwriting