## Properties of H20

- Polar: many covalently and ionically bonded substances can dissolve in it
- Transport medium: since its dipole, many substances can dissolve in it
- Low density: the maximum density of water is at 4 degrees Celsius, below that temperature the molecule in ice are widely spread out, making it less dense and therefore floats on water, creating a barrier because ice is less dense than water. This forms a habitat for polar bears and a better habitat for aquatic animals
- High specific heat capacity: hydrogen bonds need a lot of energy to break, creating an aquatic environment with a stable temperature throughout the year
- incompressible: it is a liquid therefore it sproot be compressed and is useful for plants
- Cohesive: water molecules stick together, used in xylem vessels (in plants)
- Adhesive: different molecules stick together
- High surface tension: attraction between water molecules is stronger than the attraction between water and air, this is due to hydrogen bonding. This creates a stretchy surface on water that some insects can walk on