Water, Water Everywhere

important for photosynthesis



Property	Significance for Life	Explanation
SOLVENT	Water is the main transport medium for dissolved nutrients. In animals, blood (mostly water) goes through out all parts of the body, carrying nutrients. In plants, water carries nutrients up plants and through leaves.	
COHESION	Cohesion explains how water molecules can form a chain in delivering moisture to the top of a tree or through the blood stream	
Cohesion of water molecules along a surface produces SURFACE TENSION		
ADHESION	Adhesion helps water climb up the thin tubes of plants to the leaves	
Adhesion and cohesion of water allows for CAPILLARY ACTION		
HIGH SPECIFIC HEAT	Contents of cells are unlikely to freeze. Aquatic environments are thermally stable. Organisms have stable internal temperatures when the external temperature is fluctuating.	
HIGH HEAT OF VAPORIZATION	Organisms rely on hear of vaporization to remove body heat to remain cool. Evaporative cooling.	