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students should express the direction of movement in terms of solute concentration not water concentration students should use the terms hypertonic hypotonic and isotonic to compare

solutions may be loosely categorised as hypertonic hypotonic or isotonic according to their relative solute concentrations solutions with relatively higher solute concentrations are categorised as

metabolic medium the capacity of water to dissolve a large variety of substances makes it an important medium for metabolic reactions solutes dissolved into aqueous solutions are more likely to collide

computer modelling software can be used to explore the internal components of cells based on images generated by electron tomography click on the models below to explore the structures identified

osmosis is a special form of simple diffusion that involves the movement of free water molecules while water is a polar molecule it is small enough to move between phospholipids in the bilayer as a polar

plant tissue can gain or lose water according to the relative water potential of the internal and external environment animal cells do not possess a cell wall and hence lack the capacity to retain their

students should understand that the hydrophobic hydrocarbon chains that form the core of

a membrane have low permeability to large molecules and hydrophilic particles including ions and polar

in plants and fungi the effects of uncontrolled osmosis are moderated by the presence of an inflexible cell wall in hypertonic solutions the cytoplasm will shrink plasmolysis but the cell wall will maintain

c1 3 7 techniques for varying concentrations of carbon dioxide light intensity or temperature experimentally to investigate the effects of limiting factors on the rate of photosynthesis

the primary role of most monosaccharides is to function as a source of energy for the cell monosaccharides are oxidised broken down to produce large quantities of biological energy atp

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