

Diffusion, Osmosis, and Active Transport

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Theme System

TOPIC: Transport System in Living Things

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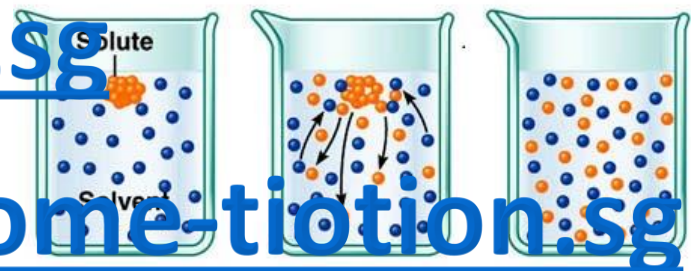
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1. Background Knowledge

Solute: The substance that dissolves in a fluid.

Solvent: The fluid (liquid/gas) in which a solute dissolves. In Biology, often refers to water.

Solution: Homogeneous mixture of solute and solvent. Mixture means solute & solvent can be separated by physical separation technique.



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These are natural phenomena.

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They occur because

1. matter is made up of smaller particles (atoms/molecules/ions).
2. Particles suspended in fluid are in spontaneous random motion, due to constant solute-solvent and solute-solute collisions.

Termed Brownian motion.

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