

Year 11 Biology Data Test

Preparation

Apply understanding of cells as the basis for life and multicellular organisms.

Enzymes

Enzymes are biological catalysts that speed up chemical reactions in living organisms.

Key Terms: Active site, substrate, enzyme-substrate complex, products, denaturation.

Data Interpretation Focus: Rate of reaction under different conditions (pH, temperature, substrate concentration).

Osmosis

Osmosis is the diffusion of water molecules through a semi-permeable membrane from a region of low solute concentration to high solute concentration.

Key Terms: Hypotonic, hypertonic, isotonic, osmotic pressure.

Data Interpretation Focus: Movement of water in and out of cells, effects of different solute concentrations on cells.

Diffusion

Diffusion is the movement of particles from an area of high concentration to low concentration.

Key Terms: Concentration gradient, equilibrium, passive transport.

Data Interpretation Focus: Rates of diffusion, factors affecting diffusion (temperature, particle size, concentration gradient).

Surface Area-to-Volume Ratios

The ratio of a cell's or object's surface area to its volume, impacting its ability to exchange materials with its environment.

Key Terms: Efficiency of diffusion, cell size, metabolic rate.

Data Interpretation Focus: Relationship between cell size, surface area-to-volume ratio, and efficiency of diffusion.

Determining Surface Area-to-Volume Ratios of cubes:

1. Calculate the surface area of the object.
Surface Area (SA) of a cube = $6 \times \text{side}^2$
2. Calculate the volume of the object.

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Yi-Tong Ma



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