

AP Biology - Unit 2 Study Guide Questions with Verified Answers

Describe diffusion and give some specific examples of molecules which move by diffusion. ✓✓.

The random thermal motion of particles of liquids, gases, or solids. In the presence of a concentration or electrochemical gradient, diffusion results in the net movement of a substance from a region where it is more concentrated to a region where it is less concentrated.

- The movement of particles of any substance, so that they tend to spread out into the available space.
- Ex. of molecules that move by diffusion: carbon dioxide (CO₂) & oxygen (O₂).

Describe how animal and plant cells differ in their present/absence of cellular organelles. ✓✓ In

Animal cells, but not Plant cells:

- lysosomes
- centrosomes, w/centrioles
- flagella (but present in some plant sperm)
- small vacuoles

In Plant cells, but not Animal cells:

- chloroplasts

Answers To Ap Biology Guide 44

**Grace Roegner Freedman, Princeton
Review**

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