

Unit Biology 3

Lungs, absorbing food and plants

- Dissolved substances move by diffusion.
- Substances are sometimes absorbed against a concentration gradient. This requires the use of more energy from respiration. The process is called active transport. It enables cells to absorb ions from very dilute solutions.
- In humans:
 - the surface area of the lungs is increased by the alveoli
 - surface area of small intestine by villi
- The lungs are separated from the lower part of the body (abdomen) by the diaphragm.
- The breathing system allows oxygen from the air to diffuse into the bloodstream and carbon dioxide to diffuse out of the bloodstream into the air.
- Adaptations for gas exchange:
 - Lungs have millions of tiny alveoli giving them large surface area
 - Alveoli have a moist thin layer of water
 - Rich supply of blood vessels
 - Walls of alveoli = one cell thick, diffusion takes place easily, + efficiently
- Small intestine adapted to absorb + digest food:
 - 3 metres long, therefore long lengths for absorption + diffusion of substances to take place
 - Finger like projections -the villi- provide a large surface area with
 - an extensive network of capillaries to absorb the products of digestion by diffusion and active transport. (transports absorbed glucose + amino acids into blood system) (transports fats into lymphatic system)
 - Each villus has a branch of the lymphatic system for transporting fats – makes it a lot easier.
 - Micro villi found on villi – expand SA further. Found in the ileum (end of the small intestine)
- In plants:
 - carbon dioxide enters leaf cells by diffusion
 - most of the water and mineral ions are absorbed by root hair cells by active transport
 - Surface area of roots is increased by root hairs
 - surface area of leaves by the flattened shape and internal air spaces.
- Plants have stomata to obtain carbon dioxide from the atmosphere.
- Plants lose water vapour from the surface of their leaves.
- This loss of water vapour is called transpiration.
- Factors affecting transpiration:
 - rapid in hot
 - dry
 - windy conditions

January 2013 6b107 Unit 3 Biology

Victor M. Corman



January 2013 6b107 Unit 3 Biology:

Unveiling the Magic of Words: A Review of "**January 2013 6b107 Unit 3 Biology**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**January 2013 6b107 Unit 3 Biology**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

https://staging.conocer.cide.edu/public/publication/HomePages/Mock_Code_Blue_Scenarios.pdf

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