

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

Part 3 Biology Unit Lesson Worksheet

SA Dillow



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Biology Inquiries Martin Shields,2005-10-07 Biology Inquiries offers educators a handbook for teaching middle and high school students engaging lessons in the life sciences Inspired by the National Science Education Standards the book bridges the gap between theory and practice With exciting twists on standard biology instruction the author emphasizes active inquiry instead of rote memorization Biology Inquiries contains many innovative ideas developed by biology teacher Martin Shields This dynamic resource helps teachers introduce standards based inquiry and constructivist lessons into their classrooms Some of the book s classroom tested lessons are inquiry modifications of traditional cookbook labs that biology teachers will recognize Biology Inquiries provides a pool of active learning lessons to choose from with valuable tips on how to implement them *Resources in Education* ,2001-04 **Bibliography of Research Studies in Education** ,1934

Statistics of Land-grant Colleges and Universities United States. Office of Education,1935 Bulletin United States. Office of Education,1935 Bulletin ,1935 **Coordination of Effort for the Education of Exceptional Children** Ellen Celia Lombard,Walter Sylvanus Deffenbaugh,Ward Wilbur Keesecker,1935 **Career Education** Educational Resources Information Center (U.S.),1973 **Reorganization of School Units** Katherine Margaret (O'Brien) Cook,Ambrose Caliver,David Segel,Ellen Celia Lombard,Frederick James Kelly,John Ward Studebaker,Severin Kazimierz Turosienski,United States. Office of Education,Walter Sylvanus Deffenbaugh,Chester S. Williams,John Hamilton McNeely,Ward W Keesecker,1935 **Reforming Learning** Clarence Ng,Peter D. Renshaw,2008-11-23 In the wake of the 1997 Asian financial crisis various reform initiatives policies and programmes have been carried out in different countries within the Asia Pacific region All these reform efforts aim to restructure different aspects of schooling in order to promote learning and to prepare students for future challenges in globalised economies These measures to a certain extent challenge traditional practices established arrangements and deep seated assumptions related to different aspects of learning The authors in this book discuss educational reforms in different countries in the Asia Pacific region in light of student learning clarify their concepts evaluate implementation and impact on the learning processes with a hope that we can learn better from each other and develop a better understanding of contemporary learning and teaching processes within the region The central argument running through different chapters in this book highlights the importance of understanding reforms and learning within their historical political and sociocultural contexts Reforming learning involves changes in established cultural practices in our schools classrooms and other learning sites and therefore inevitably arouses tensions and negotiations The discussion in this book puts to the fore the disputable nature of reforming learning and the significance of contextualising the complex relationship between reforms and learning **Creative Biology Teaching** Delma E. Harding,1969 ... **Annual Catalogue of Lincoln Institute** Lincoln University (Jefferson City, Mo.),1925 Secrets to Success for Science Teachers Ellen Kottler,Victoria Brookhart Costa,2015-10-27 This easy to read guide provides new and

seasoned teachers with practical ideas strategies and insights to help address essential topics in effective science teaching including emphasizing inquiry building literacy implementing technology using a wide variety of science resources and maintaining student safety **Resources in Education** ,1996 *Research in Education* ,1974 *The Teaching of Nature Study and Elementary Science for Grades Kindergarten to Eight* New Jersey. Department of Public Instruction,1929
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