

Heinemann

Biology 1 - Summary

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Essential knowledge summary.

UNIT 2

Area of Study 1 – Adaptations of organisms

On completion of this unit the student should be able to explain and analyse the relationship between environmental factors, and adaptations and distribution of living things.

CHAPTER 13 – Environmental factors and adaptations

KEY KNOWLEDGE

- Environmental factors determine where organisms live
- Adaptations of organisms enable survival, reproduction, and use of resources
- Adaptations include structural, physiological and behavioural features

Challenge to survival

Organisms can only live in an environment which has conditions within its tolerance range.

The environment of an organism consists of abiotic (non-living) and biotic factors (living). A requirement in limited supply is called a limiting factor to the organisms survival. Distribution is where an organism lives.

Different organisms have different physiological, anatomical and behavioural adaptations (inherited characteristic) that enable them to survive.

Adaptation (evolutionary) different to 'adapt' (individual organism acclimatise).

Adaptations can be structural (eg. shell on turtle), physiological (eg. Sweating) or behavioural (eg. Fly south for the winter).

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Jicheng Xie



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Academy; a Weekly Review of Literature, Learning, Science and Art ,1896 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 *Etiology* Christina L. Ross,2013-03-13 What is disease Why do we get sick Etiology is a groundbreaking work in the field of disease causation Author Christina Ross PhD is a board certified Polarity Practitioner and biophysicist who studies inflammatory response which she believes is the cause of all physical illness Disease Dr Ross explains begins long before biochemical imbalances occur in our physical body Disease begins at the spiritual level at the very essence of our being and evolves through our mind and emotions before it is established in our body Etiology is a study on how to detect disease before it manifests as chronic or incurable Ross empowers the reader by providing research based complementary and alternative medicine options encouraging involvement in ones own healing process **The Academy** ,1895 The Educational Times, and Journal of the College of Preceptors ,1909 **Educational Times and Journal of the College of Preceptors** ,1909 **The Saturday Review of Politics, Literature, Science and Art** ,1890 **Higher Education Journal** ,1959 The Academy and Literature ,1896 **Educational Times** ,1909 **The Publishers' Circular and Booksellers' Record** ,1929 *British Books* ,1911 **"The" Athenaeum** ,1889 **The Spectator** ,1894 **Education Outlook** ,1908 Bibliography of Agriculture ,1954-07 **The Journal of Education** ,1891 **The Publisher** ,1911 *Publishers' Circular and Booksellers' Record of British and Foreign Literature* ,1913 **Bulletin** British Antarctic Survey,1980 **Empire and the Sun** Alex Soojung-Kim Pang,2002 Astronomy was a popular and important part of Victorian sciences and British astronomers carried telescopes to remote areas in India North America and Caribbean and Pacific islands to watch solar eclipses This book tells the full story of these expeditions the long periods of planning and financing and the day to day work of getting to field sites setting up camp and preparing observing and recording eclipses

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