

EVOLUTION

7.1 Steps Leading Up to Charles Darwin's Theory

- Enormous diversity of life- each species has own set of characteristics
- **Theory** – set of statements that have been tested repeatedly and are supported by evidence – theories can be used to make predictions
- **CHARLES DARWIN** – developed theory to explain diversity of life on Earth and how all organism are related to each other and to their environment, he sought to explain evolution
- **Evolution** – idea that all species are descendents of ancient species that were different from modern day species

Changing Ideas about Natural World

- James Hutton
 - one of scientist who did not think the world was young
 - rock formation are continually formed
 - theory of **uniformitarianism** – earth was formed entirely by slow moving processes, such as erosion and sedimentation
- Charles Lyell
 - Wrote about **uniformitarianism** in Principles of Geology
- Georges Cuvier
 - Compared mammoth and elephant bones
 - Classified mammoth as extinct
 - Basically discovered possibility of ancient creatures
- **Jean-Baptiste Lammark**
 - Proposed species evolve, and changed over time
 - Use it or lose it idea
 - Evolution due to **adaption**
 - Species were adapted to environment
 - i.e. Giraffes long necks to reach high trees
 - thought due to need to long necks, they stretched and acquired them
 - acquiring characteristic is not possible because that changes DNA
- DNA plays a role in trait inheritance

Darwin's Observation

- Travelled worldwide – studying geology, plants, animals
- Patterns of Diversity – Darwin Discovered three

Grade 11 Life Science Study Guide

David Baud



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Grade 11 Life Science Study Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Grade 11 Life Science Study Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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