

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 Curier
 - 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

Life Science Grade 11 Xfevers Study Guide

Sabine Zange



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