

# 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

# A History Of The Life Sciences

**Lei Shi**



## **A History Of The Life Sciences:**

## The Enigmatic Realm of **A History Of The Life Sciences**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **A History Of The Life Sciences** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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