

# 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

**R Sandford**



## **Grade 11 Life Science Study Guide:**

The Top Books of the Year Grade 11 Life Science Study Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Grade 11 Life Science Study Guide :

Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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