

## Chapter 14 Biology notes: Mendel and the Gene Idea

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- **CONCEPT 14.1: Mendel used the scientific approach to identify two laws of inheritance:** Mendel discovered the basic principles of heredity by breeding garden peas in carefully planned experiments
- **Mendel's Experimental, Quantitative Approach:** Mendel's fresh approach to the study of heredity allowed him to deduce principles that had remained elusive to others. -A heritable feature that varies among individuals (such as flower color) is called a **character**. -Each variant for a character, such as purple or white color for flowers, is called a **trait**.
- Peas were available to Mendel in many different varieties. -Other advantages of using peas, Short generation time, Large numbers of offspring, Mating could be controlled; plants could be allowed to self-pollinate or could be cross-pollinated
- Mendel chose to track only those characters that occurred in two distinct alternative forms. -He also started with varieties that were **true-breeding** (plants that produce offspring of the same variety when they self-pollinate)
- In a typical experiment, Mendel mated two contrasting, true-breeding varieties, a process called **hybridization**. -The true-breeding parents are called the **P generation**. -The hybrid offspring of the P generation are called the **F<sub>1</sub> generation**. -When F<sub>1</sub> individuals self-pollinate or cross-pollinate with other F<sub>1</sub> hybrids, the **F<sub>2</sub> generation** is produced
- **The Law of Segregation:** In the 1800s, the explanation of heredity was the "blending" hypothesis. -When Mendel crossed contrasting, true-breeding white- and purple-flowered pea plants, all of the F<sub>1</sub> hybrids were purple. -This result was not predicted by the blending hypothesis
- When Mendel crossed the F<sub>1</sub> hybrids, many of the F<sub>2</sub> plants had purple flowers, but some had white

# Biology Notes Chapter 14 Earthlink

**E Durkheim**



**Biology Notes Chapter 14 Earthlink:**

## **Biology Notes Chapter 14 Earthlink** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Biology Notes Chapter 14 Earthlink**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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