

**D.A.V. PUBLIC SCHOOL NIT CAMPUS ADITYAPUR**  
**CLASS-X**  
**BIOLOGY**  
**CHAPTER- HEREDITY AND EVOLUTION**

## Hereditv

### Sexual reproduction

- The mode of reproduction that involves two individuals; one male and one female.
- They produce sex cells or gametes which fuse to form a new organism.

### Genes

- Gene is the functional unit of heredity.
- Every gene controls one or several particular characteristic features in living organisms.

## Hereditv

The process by which the features of an organism is passed on from one generation to another is called heredity.

- The process is done by genes, which define the characters the organism.

### Mendel's work

- Gregor Johann Mendel, known as 'Father of Genetics', was an Austrian Monk who worked on Pea plants to understand the concept of heredity.
- His work laid the foundation of modern genetics.
- He made three basic laws of inheritance – The Law of Dominance, The Law of Segregation and The Law of Independent Assortment.

### Dominant traits

The traits that express themselves in an organism in every possible combination and can be seen are called Dominant traits.