

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

Heredit

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.

Heredit

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.