

# GRADE 12 LIFE SCIENCES

## Genetics

### Introduction

- Genetics is the study of inheritance.
- The fact that the offspring of any species resemble the parents indicates that the characters in the parents are passed on to the offspring.
- Factors that determine characters (genes) are passed on from parent to offspring through gametes or sex cells.
- In fertilisation the nucleus of the male gamete fuses with the nucleus of the female gamete.
- The offspring show the characteristics of both the male and the female.
- Genetics is the study of how this heritable material operates in individuals and their offspring.

### Variations within Plant and Animal Species

#### Variation

- The term variation means to differ from a standard.
- Genetics also deals with the study of differences between organisms belonging to one species.
- Organisms belonging to higher taxonomic groups e.g. phyla or classes are clearly different.
- Although organisms belonging to the same species are similar, they show a number of differences or variations such that no two organisms are exactly the same in every respect.
- Even identical twins, though similar in many aspects, are seen to differ if they grow in different environments.
- Their differences are as a result of the environment which modifies the expression of their genetic make-up or genotype.
- The two causes of variations are the genes and the environment.
- Genes determine the character while the environment modifies the expression of that character.

### Continuous and Discontinuous Variation

#### Continuous Variations

- The differences between the individual are not clear-cut.
- There are intermediates or gradations between any two extremes.

# Grade Life Sciences Notes

**Michal Rosen-Zvi**



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