



LEARNING JOURNEY

Biology

Topic 12- DNA and Genetics

DNA and genetics

Types of reproduction

You will learn about the two different types of reproduction and how each is advantageous

Meiosis

You will learn the stages of meiosis and in which cells it occurs in. You will also compare and contrast with mitosis

Structure of DNA

You will learn about the structures DNA is made from and how and where it is stored

Genetic crosses

You will learn how characteristics are controlled by which genes you inherit from your parents.

Gregor Mendel

You will learn how Gregor Mendel studied pea plants to study his theories of genetic inheritance.

Recessive genetic disorders

You will learn how specific recessive disorders arise from the parent's genetics and how they are treated

Dominant genetic disorders

You will learn how specific dominant disorders arise from parents genetics and how they are treated.

VOCABULARY

Genes

Recessive

Dominant

Meiosis

Reproduction

Asexual

Genome

This module continues your learning journey from KS3 where you studied DNA and inheritance from our parents.

In this module we focus on how genes are inherited in the different types of reproduction and how our DNA is used to produce our characteristics.

You will then learn how genetic diseases are treated using modern medicine.

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