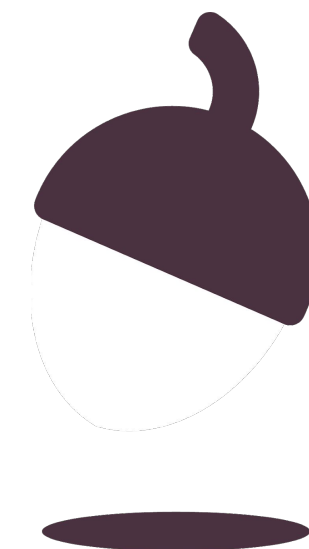


Combined Science - Biology - Key Stage 4

Genes, DNA and Chromosomes

Mrs Gibbs



OAK
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Independent task

- 1) What is a polymer?
- 1) How many strands does DNA have?
- 1) What is the name of the shape that DNA forms?



Describe how DNA codes for the production of the enzyme lipase (2)

- The bases will code for...
- Which will code for...



The genome

- The genome is...
- Understanding the genome has helped to:
 - 1) Identify genes linked with...
 - 1) Understand and treatment...
 - 1) Understand human...



Practice exam question 1

DNA is found in the nucleus of eukaryotic cells.

Describe the structure of DNA. (2)



Practice exam question 2

In 2003, the sequencing of the human genome was completed.

- a) Describe what 'the human genome' is (1)**

- a) Suggest how an understanding of the human genome could help someone with Type 1 diabetes (2)**



Practice exam question 3

a) Describe what is meant by a 'gene' (1)

a) Insulin is a hormone which controls blood sugar levels. Describe how a gene codes for the production of insulin (2)

