

Name:

Class:



What is a recessive allele?

An allele that shows its effect only if the dominant allele is not present.

Accept any correct version of the above.

What is the function of a mitochondrion?

Site of aerobic respiration.

Aerobic must be stated.

Genes control some of the characteristics of an organism.

Write the words from the box in the correct size order, starting with the smallest structure.

Cell	Chromosome	Gene	Nucleus
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Smallest structure



Largest structure

Gene

Chromosome

Nucleus

Cell

What is a gene?

A short section of DNA that codes for the production of a particular protein.

What is a gamete?

A sex cell.

Charles Darwin developed the theory of evolution by natural selection in the 1800s.

Describe the process of evolution by natural selection.

Any three from:

- Mutation or variation.
- Better adapted survive or survival of the fittest.
- (survivors / better adapted) reproduce.
- Genes/alleles passed on.

Describe how to test a sample of food for the presence of glucose?

Test: add Benedict's solution and heat the sample.

Positive result: a colour change indicates that glucose is present. Accept brick red.

Describe how to test a sample of food for the presence of protein?

Test: add Biuret solution to the sample.

Positive result: if protein is present a purple or lilac colour will be seen.