

Name:

Class:



Describe a test to show that a sample of food contains glucose.

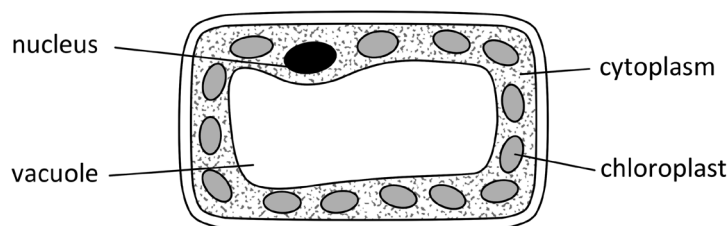
Test: Add a few drops of Benedict's solution. The mixture must be heated.

Positive result: If there is a colour change, glucose is present. Accept brick red.

Which structure contains genes?

- A The cell membrane of an animal cell
- B The cytoplasm of an animal
- C** The nucleus of a plant cell
- D The vacuole of a plant cell

The diagram shows a type of plant cell.



i. In which tissue is this cell found?

- A Leaf epidermis
- B** Palisade mesophyll
- C Root epidermis
- D Xylem

ii. State the function of the chloroplast.

Chloroplasts contain chlorophyll, making it the site of photosynthesis.

iii. State the function of the cell membrane.

Is partially permeable, it controls what enters and leaves the cell.

Fruits can be dispersed by animals or by wind. The table contains descriptions of four fruits. Which fruit will be dispersed by wind?

Fruit	Description
A	Fleshy and scented
B	Light weight and has a wing
C	Sticky and has hooks
D	Sweet tasting and brightly coloured.

What is a mutation?

- A** A change in a gene or chromosome
- B A condition caused by a recessive allele
- C A process used in genetic engineering
- D A type of discontinuous variation.

The naturalists Charles Darwin and Alfred Wallace put forward what theory?

Evolution by natural selection

Natural selection must be stated clearly.

What is the function of a mitochondrion?

Site of aerobic respiration.

What is the name given to a fertilised ovum?

Zygote