

4 June

2.1.1 B/ (1)

2.1.2 Visible differences between the plant and animal cell

CELL A (ANIMAL CELL)	CELL B (PLANT CELL)
Irregular shape	Regular shape
No cell wall	Cell wall present
Small or absent vacuoles	Large vacuole present
Chloroplast absent	Chloroplast present

Complete table/

Column headings/

First TWO differences. ✓/ Must correlate (4)

2.1.3 Stores water and minerals/

Provides turgidity/ (2)

2.1.4 cellulose/ (1)

(8)

2.2.1 B – Prophase/ The chromosomes have duplicated//chromosomes are clearly visible/

C – Metaphase/ The chromosomes are aligned at the equator//middle of the cell./

D – Anaphase/ – spindle fibres have shortened//chromosomes moving towards the poles/ (6)

2.2.2 6 SIX/ (1)

2.2.3 X – chromatid/

Y – centromere/

Z – spindle fibre/ (3)

2.2.4 Used for growth// repair// replacement of cells//Vegetative/asexual reproduction in plants (any 2)

(12)

2.3.1 Water loss/ (1)

2.3.2 Largest water loss at this light intensity//beyond this value, a decrease in water loss/ (1)

2.3.3 Prevents water evaporation from the surface of the water/ (1)

2.3.4 Allows sufficient time for the plant to adjust to new light intensities./ (1)

2.3.5 Slower rate of water loss./ (1)

(5)

2.4.1 The lower/ the concentration of sugar in the diet, the better/ the concentration span will be.

OR

The lower/less/ amount of protein in the diet, the less/ the concentration time. (2)

2.4.2 Eat more protein/ and less sugar/ (2)

2.4.3 - get permission from the principal/ to conduct the survey

- decide on the age-group of the learners/

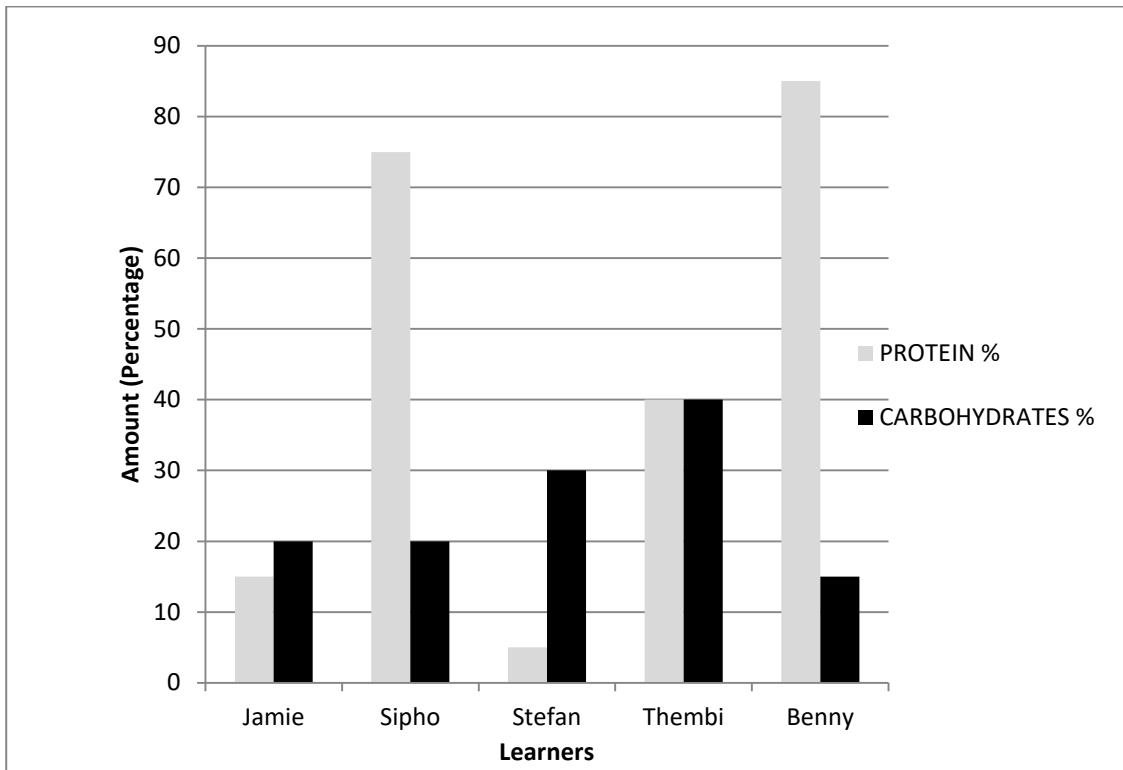
- decide on the number of learners to be surveyed/

- get permission from the parents/ to interview the learners

- decide on how the data would be captured/(questionnaire/question and answer sessions etc) (mark first 2)

2.4.5 The enzyme had become denatured /at the high temperature and couldn't break down/ the protein/ egg yolk (2)

2.4.6 Bar graph showing the % proteins and carbohydrates in the breakfast of different learners



Heading ✓

Correct type of graph ✓

X axis – correct bar and spacing width, and labels ✓

Y axis – correct grading and spacing, and labels (must have %) ✓

Key/bars ✓

(6)

(15)