

NATURAL SCIENCES GRADE 9

MEMORANDUM

CONTENT MANUAL (BASIC CONCEPTS WITH ACTIVITIES) ATP 2022

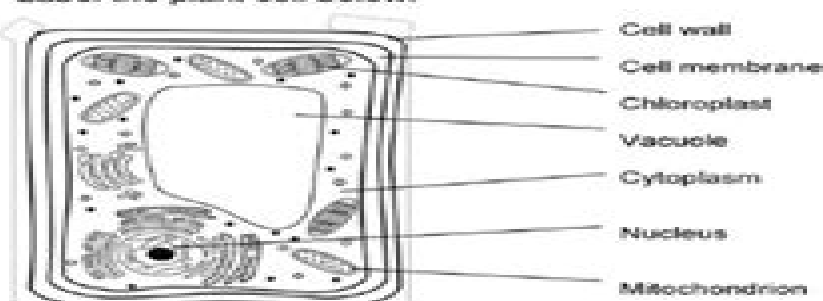
TERM 1

Strand: Life and Living

Informal activity – Plant cell

1. Name the smallest unit of all living organisms. *Cell ✓*
2. Label the plant cell below.

(1)



(1 × 7 = 7)

3. Identify from the drawing above, the component / organelle which performs each of the functions below:

Function	Name of component or organelle
Contains the DNA which determines the inherited characteristics.	<i>Nucleus ✓</i>
It surrounds the contents (cytoplasm) of the cell and controls the materials which pass into or out of a cell (selectively permeable).	<i>Cell membrane ✓</i>
A jelly-like substance which provides the liquid medium for all the chemical reactions that take place in the cell.	<i>Cytoplasm ✓</i>
The organelle in which cellular respiration takes place to release energy from glucose.	<i>Mitochondrion ✓</i>
The organelle that contains chlorophyll for photosynthesis.	<i>Chloroplast ✓</i>
It surrounds the cell membrane and provides support and protection.	<i>Cell wall ✓</i>
Fluid-filled sacs that store substances such as water, sugar, and salts.	<i>Vacuole ✓</i>

(7)

4. Name **TWO parts/organelles** VISIBLE in the diagram that prove that this is a PLANT cell.
Cell wall, ✓ chloroplasts, ✓ one big vacuole ✓ (ANY TWO) (2)
5. Which component of a plant cell is responsible for its regular shape? *Cell wall ✓* (1)

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