Simple Plant Physiology Experiments

Experiment 9 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To interpret simple osmosis and transpiration teaching experiments

Principle

Water movement, diffusion and light-dependent processes can be studied by controlled comparisons. A visible change needs a matched control.

Requirements

- Instructor-provided labelled diagrams, traces or data for this activity.
- Calculator, graph paper or spreadsheet, and the activity record.

Procedure

1. Prepare

Identify the supplied material, teaching objective and observation format.

2. Observe

Compare an instructor-provided osmosis setup and transpiration record; identify changed and controlled variables and describe the measured outcome.

3. Record and explain

Draw or tabulate the observed features. Explain a conclusion supported by those observations and one limitation.

Observations and Record

Record item	Entry
Activity / material identifier	_____
Measurement or visible feature	_____
Comparison / calculated outcome	_____
Interpretation and limitation	_____

Result

The recorded finding is ____; the supporting observation or calculation is ____. The main limitation is ____.

Precautions

- Use the supplied teaching material; distinguish a measured observation from an assumed value.
- Keep units, axes, labels and measurement conditions consistent.
- Record limitations and seek instructor review before applying a conclusion to a live case.

Viva Questions and Answers

1. What is the main endpoint?

Interpret simple osmosis and transpiration teaching experiments

2. Does one observed result prove a general conclusion?

No. Controls, repeatability and the limitations of the method must be considered.

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