

**SCHOOL BASED ASSESSMENT
GRADE 8
INTEGRATED SCIENCE PROJECT
July 2024**



**THE KENYA NATIONAL EXAMINATIONS COUNCIL
SCHOOL BASED ASSESSMENT**

Integrated Science Project

Learner's Name: _____

Assessment No. _____ **Grade: 8**

Date: _____

This paper consists of 3 pages.

INSTRUCTIONS TO THE TEACHER

(a) *This paper consists of **one** performance task.*

Task: To Demonstrate Osmosis in Living Tissues.

(b) *The teacher to organize learners to carry out the task in groups of 5 to 8 members.*

(c) *The teacher to guide learners in selecting appropriate tools, materials, equipment and digital devices for carrying out the project.*

NOTE: *Learners may germinate beans and obtain cylinders/stems from the bean seedlings or make grooves from Irish/sweet potatoes, raw pawpaw, cassava tubers and arrow roots among others.*

(d) *The teacher should encourage learners to use locally available resources as much as possible.*

(e) *The teacher should ensure that the learners observe safety measures and precautions while using the various tools, materials, equipment, and digital devices.*

(f) *The learners may share tools, materials, equipment and digital devices where applicable.*

(g) *The teacher will use the scoring guide provided to assess group performance in the project.*

(h) *The teacher will use the group's score as the individual learner's score.*

(i) *The teacher will enter the project's marks in the score sheet provided.*

(j) *The teacher to assess the suitability of the set-up used in demonstrating osmosis in living tissues.*

(k) *The teacher to orally ask the learners to outline the process of osmosis in cells.*

(l) *The teacher to orally ask the learners to outline how to demonstrate osmosis in living tissues.*

(m) *The teacher to orally ask the learners to explain the role of osmosis in living things.*

NOTE: *The teacher should assess the task right from the beginning of the project using the scoring guide provided.*

INSTRUCTIONS TO THE LEARNER

Task: To Demonstrate Osmosis in Living Tissues.

(a) Learners to source for information from textbooks, resource persons, parents or guardians, digital devices, internet and make short notes on:

- the process of osmosis in cells,
- how to demonstrate osmosis in living tissues,
- the role of osmosis in living things.

(b) Learners to draw and label the set-up to demonstrate osmosis in living tissues.

(c) In groups of 5 to 8 members, learners to share information collected and discuss how to demonstrate osmosis in living tissues.

- (d) Learners to identify and collect materials required to demonstrate osmosis in living tissues.
- (e) Learners set up experiments to demonstrate osmosis in living tissues using the collected materials.
- (f) Learners observe and comment on peers' work and make suggestions for improvement.

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