



UGANDA NATIONAL EXAMINATIONS BOARD
CONTINUOUS ASSESSMENT OBSERVATION CHECKLIST
553 BIOLOGY
Senior 3, Term 3

Centre/CA No: **Year:**

Learner's Name: **Learner ID:**

Instructions to the facilitator:

1. This observation checklist contains **one** competency, which **must** be assessed by the end of this term.
2. Please **tick** against the indicator(s) the learner has exhibited at every level assessed.
3. Record the **number of indicators observed** in the boxes provided at the end of each level for **Subject Competency (SC)** and **Generic Skill (GS)**.
4. Indicate **N/A** if the learner has not been assessed for a particular level(s).

Theme:	Growth and development in Plants and Animals.
Topic:	Growth in Plants and Animals.
Learning Outcome(s):	Conduct experiments on conditions necessary for germination.
Subject Competency (SC):	Carries out investigation on conditions necessary for germination.
Generic Skill (GS):	Co-operation and self-directed learning.
Learning Domain:	Psychomotor.

Level 1: Imitation

Subject Competency (SC): Imitating the teacher/peer/video clip/laboratory technician, etc., conducting an investigation on conditions necessary for germination (i.e. Air, water, and suitable temperature), the learner:

- ☐ Writes the aim of the experiment using key/relevant words.
- ☐ Identifies and writes the independent variable correctly.
- ☐ Identifies and writes the dependent variable correctly.
- ☐ Identifies and writes the controlled variable correctly, where applicable.

- ☐ States the hypothesis of the investigation/experiment using relevant/keywords related to the investigation/experiment.
- ☐ Writes/outlines the procedure of the experiment coherently/logically.
- ☐ Draws the required diagram, where applicable.
- ☐ Carries out the investigation following the stated/required procedure.
- ☐ Makes the required observation, where appropriate/applicable.
- ☐ Presents/records data in appropriate format.
- ☐ Carries out analysis of the data recorded to create meaning to the data obtained.
- ☐ Draws/makes appropriate conclusions about the experiment/investigation based on the analysis made.

Generic Skill (GS): Imitating the teacher/peer/video clip/laboratory technician, etc., exhibiting co-operation and self-directed learning in conducting an investigation on conditions necessary for germination, the learner:

- ☐ Works effectively in diverse teams.
- ☐ Interacts effectively with others.
- ☐ Takes responsibility for own learning.
- ☐ Works independently with persistence.
- ☐ Manages goals and time.

Level 1 Indicators	
SC	GS

Level 2: Manipulation

Subject Competency (SC): Following instructions from the teacher/peer/video clip/laboratory technician, etc., to conduct experiments on conditions necessary for germination, the learner:

- ☐ Writes the aim of the experiment using key/relevant words.
- ☐ Identifies and writes the independent variable correctly.
- ☐ Identifies and writes the dependent variable correctly.
- ☐ Identifies and writes the controlled variable correctly, where applicable.
- ☐ States the hypothesis of the investigation/experiment using relevant/keywords related to the investigation/experiment.
- ☐ Writes/outlines the procedure of the experiment coherently/logically.
- ☐ Draws the required diagram, where applicable.
- ☐ Carries out the investigation following the stated/required procedure.
- ☐ Makes the required observation, where appropriate/applicable.
- ☐ Presents/records data in appropriate format.
- ☐ Carries out analysis of the data recorded to create meaning to the data obtained.
- ☐ Draws/makes appropriate conclusions about the experiment/investigation based on the analysis made.

Generic Skill (GS): Following instructions from the teacher/peer/video clip/laboratory technician, etc., to exhibit co-operation and self-directed learning in conducting experiments on conditions necessary for germination, the learner:

- ☐ Works effectively in diverse teams.
- ☐ Interacts effectively with others.
- ☐ Takes responsibility for own learning.
- ☐ Works independently with persistence.
- ☐ Manages goals and time.

Level 2 Indicators	
SC	GS

Level 3: Precision

Subject Competency (SC): Conducting experiments on conditions necessary for germination independently but with minimal errors, the learner:

- ☐ Writes the aim of the experiment using key/relevant words.
- ☐ Identifies and writes the independent variable correctly.
- ☐ Identifies and writes the dependent variable correctly.
- ☐ Identifies and writes the controlled variable correctly, where applicable.
- ☐ States the hypothesis of the investigation/experiment using relevant/keywords related to the investigation/experiment.
- ☐ Writes/outlines the procedure of the experiment coherently/logically.
- ☐ Draws the required diagram, where applicable.
- ☐ Carries out the investigation following the stated/required procedure.
- ☐ Makes the required observation, where appropriate/applicable.
- ☐ Presents/records data in appropriate format.
- ☐ Carries out analysis of the data recorded to create meaning to the data obtained.
- ☐ Draws/makes appropriate conclusions about the experiment/investigation based on the analysis made.

Generic Skill (GS): Exhibiting co-operation and self-directed learning, independently in conducting experiments on conditions necessary for germination, the learner:

- ☐ Works effectively in diverse teams.
- ☐ Interacts effectively with others.
- ☐ Takes responsibility for own learning.
- ☐ Works independently with persistence.
- ☐ Manages goals and time.

Level 3 Indicators	
SC	GS

--	--

Level 4: Articulation

Subject Competency (SC): Conducting experiments on conditions necessary for germination, correctly and innovatively, the learner:

- ☐ Writes the aim of the experiment using key/relevant words.
- ☐ Identifies and writes the independent variable correctly.
- ☐ Identifies and writes the dependent variable correctly.
- ☐ Identifies and writes the controlled variable correctly, where applicable.
- ☐ States the hypothesis of the investigation/experiment using relevant/keywords related to the investigation/experiment.
- ☐ Writes/outlines the procedure of the experiment coherently/logically.
- ☐ Draws the required diagram, where applicable.
- ☐ Carries out the investigation following the stated/required procedure.
- ☐ Makes the required observation, where appropriate/applicable.
- ☐ Presents/records data in appropriate format.
- ☐ Carries out analysis of the data recorded to create meaning to the data obtained.
- ☐ Draws/makes appropriate conclusions about the experiment/investigation based on the analysis made.

Generic Skill (GS): Exhibiting co-operation and self-directed learning correctly and innovatively in conducting experiments on conditions necessary for germination, the learner:

- ☐ Works effectively in diverse teams.
- ☐ Interacts effectively with others.
- ☐ Takes responsibility for own learning.
- ☐ Works independently with persistence.
- ☐ Manages goals and time.

Level 4 Indicators	
SC	GS

Level 5: Naturalisation

Subject Competency (SC): Conducting experiments on conditions necessary for germination, with ease, the learner:

- ☐ Writes the aim of the experiment using key/relevant words.
- ☐ Identifies and writes the independent variable correctly.
- ☐ Identifies and writes the dependent variable correctly.

- ☐ Identifies and writes the controlled variable correctly, where applicable.
- ☐ States the hypothesis of the investigation/experiment using relevant/keywords related to the investigation/experiment.
- ☐ Writes/outlines the procedure of the experiment coherently/logically.
- ☐ Draws the required diagram, where applicable.
- ☐ Carries out the investigation following the stated/required procedure.
- ☐ Makes the required observation, where appropriate/applicable.
- ☐ Presents/records data in appropriate format.
- ☐ Carries out analysis of the data recorded to create meaning to the data obtained.
- ☐ Draws/makes appropriate conclusions about the experiment/investigation based on the analysis made.

Generic Skill (GS): Exhibiting co-operation and self-directed learning with ease, in conducting experiments on conditions necessary for germination, the learner:

- ☐ Works effectively in diverse teams.
- ☐ Interacts effectively with others.
- ☐ Takes responsibility for own learning.
- ☐ Works independently with persistence.
- ☐ Manages goals and time.

Level 5 Indicators	
SC	GS