



UGANDA NATIONAL EXAMINATIONS BOARD
CONTINUOUS ASSESSMENT OBSERVATION CHECKLIST
553 BIOLOGY
Senior 3, Term 1

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:

Respiration in plants and animals.

Topic:

Aerobic and Anaerobic Respiration.

Learning Outcome(s):

Carry out investigations to find the products of anaerobic respiration in plants and animals.

Subject Competency (SC):

Carries out investigations to find the products of anaerobic respiration in plants and animals.

Generic Skill (GS):

Creativity and Innovation.

Learning Domain:

Psychomotor.

Level 1: Imitation

Subject Competency (SC): Imitating the teacher/peer/video clip/laboratory technician, etc., conducting investigations on anaerobic respiration, the learner:

- Writes the aim of the experiment on anaerobic respiration using key/relevant words related to anaerobic respiration.
- Writes the independent variable correctly.
- Writes the dependent variable correctly.
- Writes the controlled variable correctly, where applicable.
- Writes 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 conclusion about the experiment/investigation based on the analysis made.

Generic Skill (GS): Imitating the teacher/peer/video clip/laboratory technician, etc., exhibiting creativity and innovation while carrying out investigations on anaerobic respiration, the learner:

- Uses imagination to explore possibilities.
- Works with others to generate ideas.
- Suggests and develops new solutions.
- Tries out innovative alternatives.
- Looks for patterns and makes generalisations.

Level 1 Indicators	
SC	GS

Level 2: Manipulation

Subject Competency (SC): Following instructions from the teacher/peer/video clip/laboratory technician, etc., to conduct investigations on anaerobic respiration, the learner:

- Writes the aim of the experiment on anaerobic respiration using key/relevant words related to anaerobic respiration.
- Writes the independent variable correctly.
- Writes the dependent variable correctly.
- Writes the controlled variable correctly, where applicable.
- Writes 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 conclusion 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 creativity and innovation while carrying out investigations on anaerobic respiration, the learner:

- Uses imagination to explore possibilities.
- Works with others to generate ideas.
- Suggests and develops new solutions.
- Tries out innovative alternatives.
- Looks for patterns and makes generalisations.

Level 2 Indicators	
SC	GS

Level 3: Precision

Subject Competency (SC): Conducting investigations on anaerobic respiration independently but with minimal errors, the learner:

- Writes the aim of the experiment on anaerobic respiration using key/relevant words related to anaerobic respiration.
- Writes the independent variable correctly.
- Writes the dependent variable correctly.
- Writes the controlled variable correctly, where applicable.
- Writes 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 conclusion about the experiment/investigation based on the analysis made.

Generic Skill (GS): Exhibiting creativity and innovation independently in conducting investigations on anaerobic respiration, the learner:

- Uses imagination to explore possibilities.
- Works with others to generate ideas.
- Suggests and develops new solutions.
- Tries out innovative alternatives.
- Looks for patterns and makes generalisations.

Level 3 Indicators	
SC	GS

Level 4: Articulation

Subject Competency (SC): Conducting investigations on anaerobic respiration innovatively and correctly, the learner:

- Writes the aim of the experiment on anaerobic respiration using key/relevant words related to anaerobic respiration.
- Writes the independent variable correctly.
- Writes the dependent variable correctly.
- Writes the controlled variable correctly, where applicable.
- Writes 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 conclusion about the experiment/investigation based on the analysis made.

Generic Skill (GS): Exhibiting creativity and innovation correctly in conducting investigations on anaerobic respiration, the learner:

- Uses imagination to explore possibilities.
- Works with others to generate ideas.
- Suggests and develops new solutions.
- Tries out innovative alternatives.
- Looks for patterns and makes generalisations.

Level 4 Indicators	
SC	GS

Level 5: Naturalisation

Subject Competency (SC): Conducting investigations on anaerobic respiration, with ease, the learner:

- Writes the aim of the experiment on anaerobic respiration using key/relevant words related to anaerobic respiration.
- Writes the independent variable correctly.
- Writes the dependent variable correctly.
- Writes the controlled variable correctly, where applicable.
- Writes 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 conclusion about the experiment/investigation based on the analysis made.

Generic Skill (GS): Exhibiting creativity and innovation while conducting investigations on anaerobic with ease, the learner:

- Uses imagination to explore possibilities.
- Works with others to generate ideas.
- Suggests and develops new solutions.
- Tries out innovative alternatives.
- Looks for patterns and make generalisations.

Level 5 Indicators	
SC	GS