



UGANDA NATIONAL EXAMINATIONS BOARD
CONTINUOUS ASSESSMENT OBSERVATION CHECKLIST
456 MATHEMATICS
Senior 4, 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:

Patterns and Algebra

Topic:

Linear Programming

Learning Outcome(s):

1. Represent the inequalities on the graph and identify the required region.
 2. Find and interpret the optimum solution of a set of linear inequalities in two unknowns.
- Uses inequalities to solve real-life problems.
Critical thinking and problem-solving.
Psychomotor.

Subject Competency (SC):

Generic Skill (GS):

Learning Domain:

Level 1: Imitation

Subject Competency (SC): Imitating the teacher/peer/video clip, etc., using inequalities to solve real-life problems, the learner:

- ☐ Identifies appropriate materials.
- ☐ Forms equations of lines out of inequalities.
- ☐ Finds coordinates of lines.
- ☐ Graphs the lines by plotting and joining points.
- ☐ Shades unwanted regions.

- ☐ Identifies optimal points.
- ☐ Makes decisions.

Generic Skill (GS): Imitating the teacher/peer/video clip, etc., exhibiting critical thinking and problem-solving skills in using inequalities to solve real-life problems, the learner:

- ☐ Plans and carries out investigations.
- ☐ Sorts and analyses information.
- ☐ Identifies problems and ways forward.
- ☐ Predicts and makes reasoned decisions.
- ☐ Evaluates different decisions.

Level 1 Indicators	
SC	GS

Level 2: Manipulation

Subject Competency (SC): Following instructions from the teacher/peer/video clip, etc., to use inequalities to solve real-life problems, the learner:

- ☐ Identifies appropriate materials.
- ☐ Forms equations of lines out of inequalities.
- ☐ Finds coordinates of lines.
- ☐ Graphs the lines by plotting and joining points.
- ☐ Shades unwanted regions.
- ☐ Identifies optimal points.
- ☐ Makes decisions.

Generic Skill (GS): Following instructions from the teacher/peer/video clip, etc., to exhibit critical thinking and problem-solving skills in using inequalities to solve real-life problems, the learner:

- ☐ Plans and carries out investigations.
- ☐ Sorts and analyses information.
- ☐ Identifies problems and ways forward.
- ☐ Predicts and makes reasoned decisions.
- ☐ Evaluates different decisions.

Level 2 Indicators	
SC	GS

Level 3: Precision

Subject Competency (SC): Using inequalities to solve real-life problems independently, with minimal errors, the learner:

- ☐ Identifies appropriate materials.
- ☐ Forms equations of lines out of inequalities.
- ☐ Finds coordinates of lines.
- ☐ Graphs the lines by plotting and joining points.
- ☐ Shades unwanted regions.
- ☐ Identifies optimal points.
- ☐ Makes decisions.

Generic Skill (GS): Exhibiting critical thinking and problem-solving skills independently in using inequalities to solve real-life problems, the learner:

- ☐ Plans and carries out investigations.
- ☐ Sorts and analyses information.
- ☐ Identifies problems and ways forward.
- ☐ Predicts and makes reasoned decisions.
- ☐ Evaluates different decisions.

Level 3 Indicators	
SC	GS

Level 4: Articulation

Subject Competency (SC): Using inequalities to solve real-life problems correctly and innovatively, the learner:

- ☐ Identifies appropriate materials.
- ☐ Forms equations of lines out of inequalities.
- ☐ Finds coordinates of lines.
- ☐ Graphs the lines by plotting and joining points.
- ☐ Shades unwanted regions.
- ☐ Identifies optimal points.
- ☐ Makes decisions.

Generic Skill (GS): Exhibiting critical thinking and problem-solving skills correctly and innovatively in using inequalities to solve real-life problems, the learner:

- ☐ Plans and carries out investigations.

- ☐ Sorts and analyses information.
- ☐ Identifies problems and ways forward.
- ☐ Predicts and makes reasoned decisions.
- ☐ Evaluates different decisions.

Level 4 Indicators	
SC	GS

Level 5: Naturalisation

Subject Competency (SC): Using inequalities to solve real-life problems, with ease, the learner:

- ☐ Identifies appropriate materials.
- ☐ Forms equations of lines out of inequalities.
- ☐ Finds coordinates of lines.
- ☐ Graphs the lines by plotting and joining points.
- ☐ Shades unwanted regions.
- ☐ Identifies optimal points.
- ☐ Makes decisions.

Generic Skill (GS): Exhibiting critical thinking and problem-solving skills, with ease, in using inequalities to solve real-life problems, the learner:

- ☐ Plans and carries out investigations.
- ☐ Sorts and analyses information.
- ☐ Identifies problems and ways forward.
- ☐ Predicts and makes reasoned decisions.
- ☐ Evaluates different decisions.

Level 5 Indicators	
SC	GS