



NCDC

*NATIONAL CURRICULUM
DEVELOPMENT CENTRE*

**End of Year Sample
ASSESSMENT ITEMS FOR S.1 AND S.2**

AGRICULTURE

2022

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SAMPLE ASSESSMENT FOR END-OF-YEAR FOR S.1 AND S.2

Introduction

The new Lower Secondary Curriculum requires teachers to assess learners following the competency-based assessment and pedagogy of integration approach assessment. This approach is guided by a configuration format of 3 short response items and one extended response item. In this sample, you are provided with one example of each to enable you to design and develop your own to suit your situation.

Instructions

The paper has 4 items. All items are compulsory

Part I is three Short Response Items


Part II is one Extended Response Item

Time: 1 hour

PART I

SHORT RESPONSE ITEM

1. The pictures in the figure below show the different sizes of real seeds of agricultural crops, pastures and weeds. Study the photographs and attempt the activity that follows.

tick berry	wheat	soya bean	black jack	maize
				

As a crop scientist in an area where soils have low moisture content, select with reasons, one type of seed you would grow to produce and market profitably.

.....
.....
..... (3 scores)

This item is developed from the following learning outcome:

The learner should be able to show skills in distinguishing between different soil particles, soil texture, soil structure, soil profile, and soil types for agricultural purpose.

2. There can be little doubt that the underlying causes of injuries on a farm are the same today. This is because farming and human nature have relatively remained unchanged for fifty years. None of the leading injury causes are a major surprise. The table below shows the number of injuries at different sites. Study it carefully and answer the question that follows.

Sources of injury	Number of injuries for the site		Total
	Field garden	Backyard garden	
Secateurs or pruners	4408	21	4429
Spade	3588	349	3937
Wheelbarrow	1579	410	1989
Rake	779	41	820
Watering can	718	21	739
Trowel	431	0	431
Garden wire or twine	226	41	267
Pruning saw	185	0	185
Mister/Sprayer	185	0	185

In your opinion with reasons, suggest what could be the leading cause of injuries to farmers in 2030?

.....

 (3 scores)

This item is developed from the following learning outcomes:

The learner should be able to:

- Demonstrate skills in using farm tools and implements correctly for better production.
- Demonstrate the basic occupational safety and health standards in agriculture.

3. Water is a vital nutrient in domestic animal rearing. Animals like poultry, goats, fish, or rabbits are very active creatures. For that reason, they need or live in water. Water consumption in these animals is closely related to feed intake. What key message would you give to a farmer rearing any one of these animals for sale?

.....

 (3 scores)

This item is developed from the following learning outcome:

- *The learner should be able to understand the basics of caring for domestic animals including the nutrient, feed requirements, and provision of water.*

SAMPLE SHORT RESPONSE ITEM

1.

Basis of evaluation	Accuracy criteria
One type of seed you would grow to produce and market profitably.	Score: 3 for appearance 5-6 bolded words in the sentence Score: 2 for 3-4 words Score: 1 for 1-2 words as follows Scores 3 if the learner states that Maize with big sized seeds which are planted at 5-10cm deep in the soil and require between 900mm -1500mm of rainfall to grow.
	Scores 2 if the learner states that Maize with big sized seeds which are planted at 5-10cm deep in the soil
	Scores 1 if the learner states that Maize with big sized seeds.

2.

Basis of evaluation	Accuracy criteria
Identifying tools or machines which will be used by the majority of people (practitioners and non-practitioners)	Score: 3 for appearance 5-6 bolded words in the sentence Score: 2 for 3-4 words Score: 1 for 1-2 words as follows Scores 3 if the learner states that wheel burrow with 410 injuries occurring in backyard farming which has a rotating wheel.
	Score 2 if the learner states that Wheel burrow with 410 injuries occurring in backyard farming
	Score 1 if the learner states that Wheel burrow with 410 injuries which is common in most homes

3.

Basis of evaluation	Accuracy criteria
Provision of water to domestic animals for high production and the market.	<p>Score: 3 for appearance 5-6 bolded words in the sentence</p> <p>Score: 2 for 3-4 words</p> <p>Score: 1 for 1-2 words as follows</p> <p>Scores 3 if the learner states for any of these poultry, goats, fish, or rabbits need regular clean water supplies, some having high water requirements. Water should be of high quality, and plenty provided. If the water is not changed regularly, it can become contaminated with dirt and bacteria, and may cause ill health to the animal. You cannot get high yield and better quality for the market.</p>
	<p>Scores 2 if the learner states for any of these poultry, goats, fish, or rabbits Need regular clean water supplies, some having high water requirements. Water contaminated with dirt and bacteria, and may cause ill health to the animal. You cannot get high yield and better quality for the market.</p>
	<p>Scores 1 if the learner states for any of these poultry, goats, fish, or rabbits Need regular clean water supplies, some having high water requirements. Water contaminated with dirt and bacteria leads to ill health.</p>

PART II

Sample Extended Response Item

1. In 2018, farmers established maize gardens at the onset of the rains. The planting was done according to the recommendations of NAADS. One colour of maize was planted. During the growing period, maize started off well and flowered. The smell in the maize garden attracted many organisms. Among these were birds, which could be seen enjoying the maize fruits. Children made noise around the garden from this time until harvesting. Some of the maize was harvested locally for roasting. When the sunshine set in, the remaining maize is hung on the maize stalk until it was completely dry. The harvested dry maize cobs were seen heaped on a cleared ground near the gardens. During this season, the price of dry maize grain was reduced from UGX 1250 to UGX 200 per kilogramme. The maize buyers further dried, sorted, packed, and stored the maize. Packed maize flour prices remained high and continued to rise.

The farmers in this community decided to support one person to visit the neighbouring country and look for avenues of supplying maize there. Upon his return, this person reported attention-capturing ideas. In turn, the farmers decided to have these ideas used and find where to sell their maize. Some needed changes required over half a year to achieve. Yet for the majority, it would be yet another new harvest. This resulted in a hot debate.



Task:

If you were the chairperson of this community, write an opinion you would use to guide the debate so that the discussion focus on finding a better resolution for them. (9 scores)

This item is developed from the following learning outcomes:

The learner should be able to:

- ***Understand the factors that influence plant growth and crop production.***
- ***Understand how to select appropriate planting material of the cereal chosen for growing.***
- ***Show skills in growing cereals.***
- ***Show skills in handling cereals during and after harvesting.***
- ***Understand various methods for storing cereals.***

ASSESSMENT GRID FOR THE SAMPLE EXTENDED RESPONSE ITEM

OUTPUT	Basis of evaluation	CRITERIA 1 Relevance on the results of the output	CRITERIA 2 Accuracy of the maize production, processing and marketing	CRITERIA 3 Coherence of the response to the task
Written opinion	Growing maize from planting to selling in the market	<p>Score: 3 for 5-6 Score: 2 for 3-4 Score: 1 for 1-2</p> <p>The advice has <i>closely related things that include</i> written/sign of the names (for literacy as required by SDG4: 4.6) written/signed the date, learner number (for numeracy as required by SDG4: 4.6)</p> <ul style="list-style-type: none"> - The opinion refers to maize production - maize business model canvas - maize varieties (Longe1, Longe2) - seedbed preparation - timely planting - spacing - plant population 	<p>Score: 3 for 5-6 Score: 2 for 3-4 Score: 1 for 1-2</p> <p>The following terms and processes are mentioned <i>correctly in the technical language of agriculture:</i></p> <ul style="list-style-type: none"> - value addition of maize into silage, livestock feed, maize flour - drying of maize produce or products - solar drier construction - processing and marketing of maize produce or products - packaging of maize produce or products - observes 	<p>Score: 3 for 5-6 Score: 2 for 3-4 Score: 1 for 1-2</p> <p>The opinion applies/engages/deploys/uses ideas in a logical flow in the text of how value addition to maize or crop products</p> <ul style="list-style-type: none"> - applies/engages/deploys/uses appropriate structured sentences, paragraphs and captions - The advice is comprehensibly precise, ordered and organized. - The crop product production, processing and marketing processes mentioned (regardless of being correct or not) have a logic timeline. - The advice message is readable, clearly

OUTPUT	Basis of evaluation	CRITERIA 1 Relevance on the results of the output	CRITERIA 2 Accuracy of the maize production, processing and marketing	CRITERIA 3 Coherence of the response to the task
		<ul style="list-style-type: none"> - planting - weeding - fertilizer - harvesting at flowering; milk dough or seed stage - processing into different products - milling - packing - branding - labelling - finding a buyer - customer care 	<ul style="list-style-type: none"> occupational health, safety and environmental practice - implementing the hazard analysis critical control plan on maize production - follows the food safety guidelines on value addition to maize produce and product - prices and advertises for profit on value addition to maize produce and product. - provides a personal opinion on value addition to maize produce and product. 	<p>written and rich in vocabulary which is clearly written.</p>