

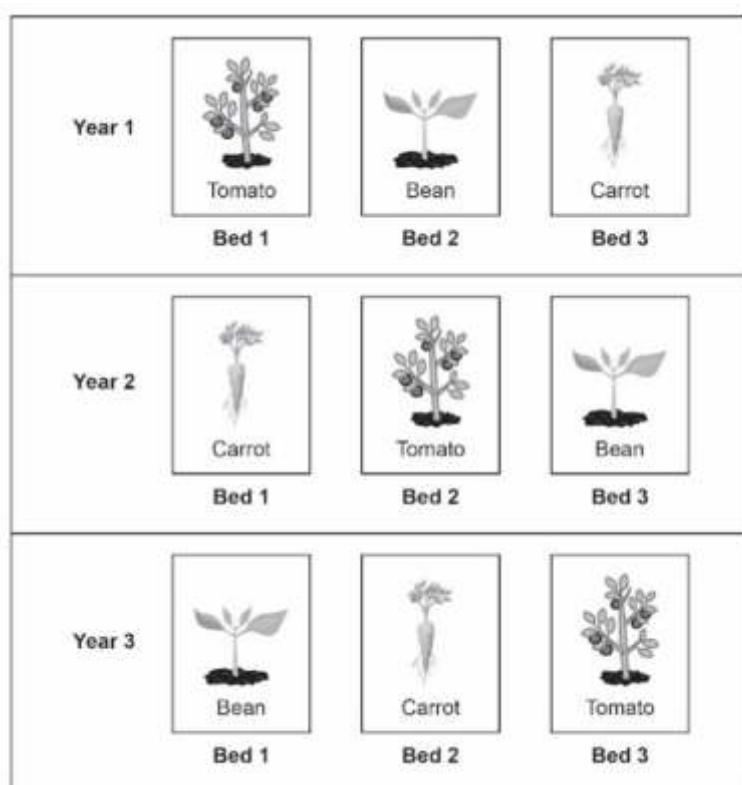
Curriculum Aligned Competency Based Test Items

Science

Class 9 – Chapter 15

Improvement In Food Resources

The diagram shows the crop harvesting pattern followed by a farmer.
Bed 1, Bed 2 and Bed 3 are different parts of the farm.



SAS21S091501

1 What is the common term used for this pattern of crop harvesting?

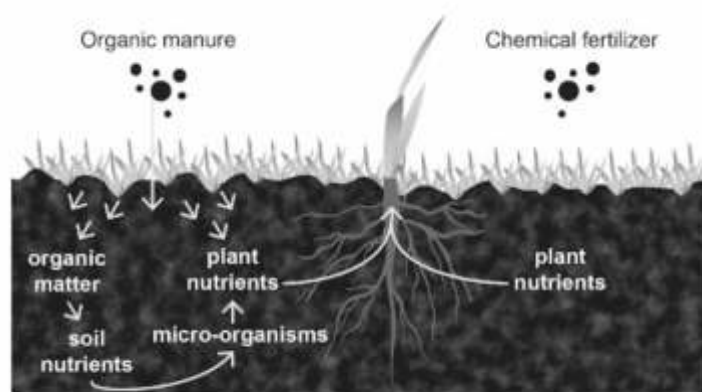
- A. Crop rotation
- B. Intercropping
- C. Mixed cropping
- D. Organic farming

SAS21S091502

2 What is the advantage of the crop harvesting pattern shown in the diagram?

- A. The crops are resistant to diseases.
- B. The harvesting time of the crops are reduced.
- C. Less amount of water is required to irrigate the farm.
- D. Different nutrients present in the farm soil are evenly used over time.

The picture shows how organic manure and chemical fertilizer are used by plants.



SAS21S091503

3 Which of these can be concluded from the picture?
Circle 'Yes' or 'No' for the correct response

Can this be concluded from the picture?	Yes or No
Organic manure provides food for the soil microorganisms.	Yes/No
Chemical fertilizer provides nutrients that can be directly absorbed by the plants.	Yes/No
Chemical fertilizer improves long term fertility of the soil better than organic manure.	Yes/No

SAS21S091504

4 Which of these nutrients is required by plants in large quantities?

- A. Iron
- B. Zinc
- C. Potassium
- D. Manganese

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5 Which food source has the following?

- Rich in protein
- Low fat
- Has vitamin B2

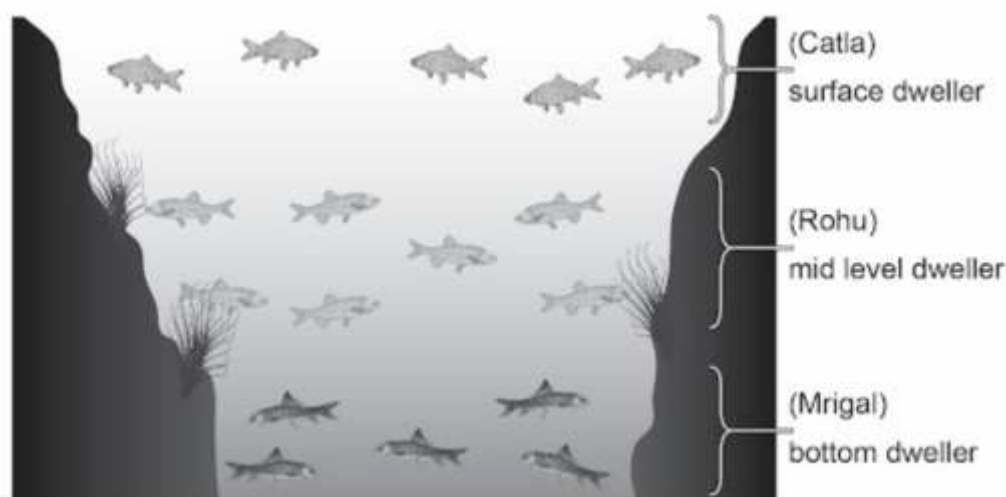
- A. Source 1
B. Source 2
C. Source 3
D. Source 4

SAS21S091506

6 The quality of honey differs from sample to sample.
Which of these decides the quality of a honey sample?

- A. Time of the day when the bees collect nectar
B. Time taken by the bees to build the beehive
C. Type of flower from which the bees collect nectar
D. Size of the beehive from which the honey is collected

Composite fish culture is a process of growing different types of fish in the same pond.
The diagram shows a composite fish culture pond.



SAS21S091507

7 Which of these is true about composite fish culture?
Circle 'Yes' or 'No' for the correct response.

Is this true about composite fish culture?	Yes or No
Organic manure provides food for the soil microorganisms.	Yes/No
Some of the fish are scavengers and feed on dead organisms.	Yes/No
The different types of fish can live in similar water temperatures.	Yes/No

SAS21S091508

- 8** Which of these is a likely advantage of composite fish culture?
- A. Fish grow better when different species live together.
 - B. All areas of the pond are utilized for better fish production.
 - C. Fish eat less food when grown in composite culture ponds.
 - D. Dissolved oxygen level is higher in composite culture ponds.

SAS21S091509

- 9** Oysters are cultivated in inland water bodies for food.
What else can be obtained from the cultivation of oysters?

- A. Pearl
- B. Sponge
- C. Platinum
- D. Platinum

SAS21S091510

- 10** Why does poultry farming involve crossbreeding between two pure breeds of chicken?

Answers

Science
Class 9 – Chapter 15

Item Number	Question 1
Question Code	SAS21S091501
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Cropping Patterns
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	A. Crop rotation
No Credit (No Score)	Any other response or missing response

Item Number	Question 2
Question Code	SAS21S091502
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Cropping Patterns
Competency	Interpreting Data and Evidence Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	D. Different nutrients present in the farm soil are evenly used over time.
No Credit (No Score)	Any other response or missing response

Item Number	Question 3
Question Code	SAS21S091503
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Nutrient Management
Competency	Interpreting Data and Evidence Scientifically
Item Type	Complex Multiple Choice Question
Full Credit (Full Score)	Yes Yes No
No Credit (No Score)	Any other response or missing response

Item Number	Question 4
Question Code	SAS21S091504
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Nutrient Management
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	C. Potassium
No Credit (No Score)	Any other response or missing response

Item Number	Question 5
Question Code	SAS21S091505
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Nutrient Management
Competency	Interpreting Data and Evidence Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	A. Source 1
No Credit (No Score)	Any other response or missing response

Item Number	Question 6
Question Code	SAS21S091506
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Animal Husbandry (Bee-keeping)
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	C. Type of flower from which the bees collect nectar
No Credit (No Score)	Any other response or missing response

Item Number	Question 7
Question Code	SAS21S091507
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Animal Husbandry (Bee-keeping)
Competency	Interpreting Data and Evidence Scientifically
Item Type	Complex Multiple Choice Question
Full Credit (Full Score)	Yes Yes No
No Credit (No Score)	Any other response or missing response

Item Number	Question 8
Question Code	SAS21S091508
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Animal Husbandry (Bee-keeping)
Competency	Interpreting Data and Evidence Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	B. All areas of the pond are utilized for better fish production.
No Credit (No Score)	Any other response or missing response

Item Number	Question 9
Question Code	SAS21S091505
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Animal Husbandry (Fish Production)
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	A. Pearl
No Credit (No Score)	Any other response or missing response

Item Number	Question 10
Question Code	SAS21S091510
Grade & Chapter Name	Grade 9 Improvement in Food Resources
Concept Sub-concept	Life Science Animal Husbandry (Poultry Farming)
Competency	Explaining Phenomena Scientifically
Item Type	Constructed Response
Full Credit (Full Score)	Mentions that crossbreeding is done to get desirable characteristics in the hybrid chicken.
No Credit (No Score)	Any other response or missing response