

Class 9 - Skill Education

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Rooftop Gardening

CBSE NOTES

Rooftop Gardening - Mastery Worksheet

Strengthen your foundation with key concepts and basic applications.



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Solve the following questions. Write your answers in the space provided.

1. Discuss the advantages and disadvantages of using terracotta pots versus recycled containers for rooftop gardening, considering weight, cost, and plant health.

Hint: Consider weight implications for roof safety and how drainage affects plant health.

2. Explain the importance of water management in rooftop gardening and outline an irrigation schedule for leafy greens.

Hint: Think about weather patterns and plant requirements in different seasons.



Solve the following questions. Write your answers in the space provided.

3. Evaluate the role of sunlight in the selection of plants for a rooftop garden and suggest strategies for accommodating plants with varying light requirements.

Hint: Refer to sunlight data from your area to choose the best locations.

4. Identify common pests and diseases in rooftop gardening and propose an integrated approach to manage them.

Hint: Research common pests in your region and their effective natural remedies.



Solve the following questions. Write your answers in the space provided.

5. Design a layout for a 12 m² rooftop garden, highlighting spacing considerations for efficient plant growth and maintenance.

Hint: Remember regulatory weight limits for rooftops when planning layout.

6. Conduct a germination test on two types of seeds and analyze the results to determine their viability for your rooftop garden.

Hint: Consider environmental conditions during the germination period.



Solve the following questions. Write your answers in the space provided.

7. Formulate a bill of materials for a rooftop garden setup, considering cost-efficiency and sustainability.

Hint: Think about local resources and recycled materials that can reduce costs.

8. Examine the relationship between potting mixture composition and plant health in a rooftop environment.

Hint: Research the specific needs of plants you plan to grow.



Solve the following questions. Write your answers in the space provided.

9. Analyze the impact of storage methods on the freshness of harvested produce and recommend the best practices for rooftop garden yield.

Hint: Conduct an exploratory study on methods that keep harvested produce fresh longer.

10. Create a community engagement plan for sharing rooftop gardening knowledge and produce within your locality.

Hint: Consider digital tools or social media to boost community engagement.



Check your answers with the solutions below.

1. Discuss the advantages and disadvantages of using terracotta pots versus recycled containers for rooftop gardening, considering weight, cost, and plant health.

Solution: Terracotta pots allow for air and moisture to pass, preventing waterlogging but can be heavy and expensive. Recycled containers are lightweight and cost-effective but may not provide adequate drainage if not modified properly. Compare using a table to illustrate differences in weight, costs, and aeration properties.

2. Explain the importance of water management in rooftop gardening and outline an irrigation schedule for leafy greens.

Solution: Effective water management prevents waterlogging and promotes healthy plant growth. An irrigation schedule could involve watering every 2-3 days depending on weather conditions and humidity. Include calculations based on potting mixture's water holding capacity.

3. Evaluate the role of sunlight in the selection of plants for a rooftop garden and suggest strategies for accommodating plants with varying light requirements.

Solution: Plants require specific sunlight levels; leafy greens may thrive in partial shade while tomatoes need full sun. Strategies can include varying pot placements or utilizing shade nets or taller structures to block direct sunlight for sensitive plants. Include a diagram of potential layouts.

4. Identify common pests and diseases in rooftop gardening and propose an integrated approach to manage them.

Solution: Common problems include caterpillar damage and spider mites. Integrated management can involve physical removal, chemical treatments like neem oil, and biological methods such as introducing beneficial insects. Use a flowchart to demonstrate your management strategy.



Check your answers with the solutions below.

5. Design a layout for a 12 m² rooftop garden, highlighting spacing considerations for efficient plant growth and maintenance.

Solution: The layout should consider adequate space between pots for growth and maintenance. Use a scaled diagram to show specific distances based on plant sizes and growth habits. Discuss safety concerns regarding weight distribution.

6. Conduct a germination test on two types of seeds and analyze the results to determine their viability for your rooftop garden.

Solution: Plant a specific number of seeds for each type and track the germination over three weeks. Calculate the rate of germination and discuss factors that influence outcomes such as seed quality and soil conditions.

7. Formulate a bill of materials for a rooftop garden setup, considering cost-efficiency and sustainability.

Solution: List all necessary materials along with estimated costs, ensuring to include quantities and potential sources like local nurseries. Suggest alternatives for expensive items to enhance sustainability.

8. Examine the relationship between potting mixture composition and plant health in a rooftop environment.

Solution: Discuss that a lightweight potting mixture promotes drainage, while a dense composition may retain too much moisture leading to root rot. Suggest ideal ratios of components (soil, compost, cocopeat) and their impact on root health.



Check your answers with the solutions below.

9. Analyze the impact of storage methods on the freshness of harvested produce and recommend the best practices for rooftop garden yield.

Solution: Discuss how different storage methods affect moisture retention and shelf life, recommending specific practices like using breathable containers for fruits and vegetables. Provide examples from your learning.

10. Create a community engagement plan for sharing rooftop gardening knowledge and produce within your locality.

Solution: Outline activities such as workshops, produce sharing events, and school visits that engage the community. Highlight the benefits of urban gardening on community health and relationships.



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