

**INTRODUCTION TO HORTICULTURE, SECOND EDITION
PROFILE OF TRAINING MASTERY**

Instructor _____

Date _____

Program _____	
Grade _____	School _____
Name _____	Soc. Sec. No. _____
Address _____	Phone _____
In Case of Emergency, Contact _____	
Address _____	Phone _____
Allergies/Disabilities that might require special accommodation for training (please specify) _____	
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Date of Enrollment ____ - ____ - ____ Total Class Hours _____ Total Hours Absent _____
Date of Withdrawal ____ - ____ - ____ Total On-the-Job Training Hours _____ Total Hours Tardy _____
Date of Completion ____ - ____ - ____ Total Lab Hours _____

ON-THE-JOB TRAINING/WORK EXPERIENCE

Duration of Employment _____	Job Title _____	Supervisor's Name _____
Address of Employer _____		Phone _____
Duration of Employment _____	Job Title _____	Supervisor's Name _____
Address of Employer _____		Phone _____

Use of This Document

This document can be used to record information about the student and skills mastered. This information is useful in documenting student progress during training and in providing information about the student's qualifications to potential employers and/or for entry into advanced training programs. Instructors using these materials are authorized to reproduce this document as required for use in their training programs.



SPECIFIC JOB COMPETENCIES

Instructor: As each competency is mastered, place your initials and the date in the blank on the left. This will verify that the student can perform the skill with a minimum of supervision.

Date/Initials

UNIT 1 - INTRODUCTION TO HORTICULTURE

- _____ 1. Match the branches and divisions of the horticultural tree to their definitions.
- _____ 2. Describe the values of horticulture.
- _____ 3. List occupational tasks associated with each horticultural specialty.
- _____ 4. Arrange in order the levels of the horticultural career ladder.
- _____ 5. Identify position descriptions associated with each level of the horticultural career ladder.
- _____ 6. Distinguish among plant nomenclature and taxonomy terms.
- _____ 7. Match standard measures to their equivalents.
- _____ 8. Solve conversion problems. (Assignment Sheet 1)
- _____ 9. Write the basic formulas for surface area, area of a triangle, and volume.
- _____ 10. Solve problems using the formulas for area and volume. (Assignment Sheet 2)
- _____ 11. Calculate mix ratios.
- _____ 12. Solve problems for basic mix ratios. (Assignment Sheet 3)
- _____ 13. Calculate slope ratios.
- _____ 14. Solve problems for slope ratios. (Assignment Sheet 4)
- _____ 15. _____
- Pretest Score (%) _____
- Post Test Score (%) _____
- Modified Gains Score (%) _____

UNIT 2 -- BEGINNING A CAREER IN HORTICULTURE

- _____ 1. Match careers in horticulture to their correct descriptions.
- _____ 2. List personal characteristics that are important to employers.
- _____ 3. Analyze work situations to determine the importance of employee attitudes. (Assignment Sheet 1)
- _____ 4. Select from a list places to seek help in finding a job.
- _____ 5. Distinguish between the characteristics of private and public employment agencies.
- _____ 6. Identify places that hire horticulturists.
- _____ 7. Arrange in order steps in a practical job-seeking plan.
- _____ 8. Distinguish between information to be obtained before and during a job interview.
- _____ 9. Select from a list guidelines for dressing for an interview.
- _____ 10. Select from a list recommended interviewing practices.
- _____ 11. Select from a list points the interviewer looks for during the interview.
- _____ 12. Write information needed on a resume. (Assignment Sheet 2)
- _____ 13. Complete an employment application. (Assignment Sheet 3)
- _____ 14. Find and analyze job possibilities in a newspaper. (Assignment Sheet 4)
- _____ 15. Prepare opening for a job interview. (Assignment Sheet 5)
- _____ 16. Practice basic interview answers. (Assignment Sheet 6)
- _____ 17. _____
- Pretest Score (%) _____
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UNIT 3 - HAND AND POWER TOOLS

- _____ 1. State safety rules for using hand tools.
- _____ 2. Match hand tools to their uses.
- _____ 3. Select from a list characteristics of quality tools.
- _____ 4. Complete procedures for maintaining hand tools.
- _____ 5. Complete rules for storing hand tools.
- _____ 6. Match correct use of the body with specific tools.
- _____ 7. Respond to scenarios involving hand-tool safety rules. (Assignment Sheet 1)
- _____ 8. State fuel safety practices for power equipment.
- _____ 9. Respond to scenarios involving fuel safety rules. (Assignment Sheet 2)
- _____ 10. State safety rules for operating power equipment.
- _____ 11. Respond to scenarios involving power tool safety rules. (Assignment Sheet 3)
- _____ 12. State safety rules for operating electric power tools.

Date/Initials

- _____ 13. Respond to scenarios involving safety rules for operating electric power tools. (Assignment Sheet 4)
- _____ 14. Match power tools with their uses.
- _____ 15. State safety rules for specific pieces of equipment.
- _____ 16. Respond to scenarios involving safety rules for specific pieces of equipment. (Assignment Sheet 5)
- _____ 17. Trim with an edger. (Job Sheet 1)
- _____ 18. Operate a front-tine rotary tiller. (Job Sheet 2)
- _____ 19. Operate a rear-tine rotary tiller. (Job Sheet 3)
- _____ 20. Mix soil medium with a cement mixer. (Job Sheet 4)
- _____ 21. Operate a gasoline-powered backpack mist blower. (Job Sheet 5)
- _____ 22. _____
- Pretest Score (%) _____
- Post Test Score (%) _____
- Modified Gains Score (%) _____

UNIT 4 - INTRODUCTION TO SAFETY

- _____ 1. State the major causes of accidents.
- _____ 2. State general job-safety rules.
- _____ 3. Lift a heavy object correctly. (Job Sheet 1)
- _____ 4. Describe the purpose of protective clothing.
- _____ 5. Complete statements about dress precautions.
- _____ 6. Distinguish among federal safety code colors.
- _____ 7. Name the type of fire extinguisher required to put out specific types of fires.
- _____ 8. Operate a fire extinguisher. (Job Sheet 2)
- _____ 9. Select from a list precautions to avoid a lightning strike.
- _____ 10. Distinguish between voltage applications.
- _____ 11. Complete electrical safety rules.
- _____ 12. Match electrical protection devices to their correct descriptions.
- _____ 13. Label three-wire receptacles.
- _____ 14. Complete safety rules for using tools.
- _____ 15. State safety rules for the work area.
- _____ 16. Analyze greenhouse safety. (Assignment Sheet)
- _____ 17. _____
- Pretest Score (%) _____
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UNIT 5 - GROWING FACILITIES

- _____ 1. Match structural parts of a greenhouse to their descriptions.
- _____ 2. Match types of greenhouses to their descriptions and to their pictures.
- _____ 3. Select true statements concerning characteristics of materials used for greenhouse frames.
- _____ 4. Distinguish among characteristics of greenhouse covering materials.
- _____ 5. Select true statements concerning greenhouse heating, cooling, and ventilation systems.
- _____ 6. Match characteristics of greenhouse benches and beds to their descriptions.
- _____ 7. Describe greenhouse facilities. (Assignment Sheet)
- _____ 8. _____
- Pretest Score (%) _____
- Post Test Score (%) _____
- Modified Gains Score (%) _____

UNIT 6 - GREENHOUSE WATERING

- _____ 1. Select true statements about environmental factors that affect watering.
- _____ 2. Distinguish among manual, automatic, and foliage watering systems.
- _____ 3. Match types of watering equipment to their descriptions.
- _____ 4. Describe the correct watering method for propagating plants. (Assignment Sheet 1)
- _____ 5. Select true statements about types of irrigation fertilizing equipment.
- _____ 6. Select true statements about proper drainage and salt build-up.
- _____ 7. Complete statements about determining water quantity.

Student ratings on specific competencies evaluated during the course are available upon student's written request and/or by calling the instructor. Parent's or guardian's signature is necessary if student is under 18 years of age.

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- _____ 8. State indicators used to determine the watering needs of plants.
 - _____ 9. Determine the watering needs of plants. (Assignment Sheet 2)
 - _____ 10. Calculate the water quantity for bench plants using an automatic watering system. (Assignment Sheet 3)
 - _____ 11. Calculate the amount of fertilizer for a proportioning pump in an automatic watering system and a hand-held hozon. (Assignment Sheet 4)
 - _____ 12. Select true statements about water quality and temperature.
 - _____ 13. Create a line drawing of a design for an automatic watering system, label all parts, and prescribe system maintenance. (Assignment Sheet 5)
 - _____ 14. List the advantages and disadvantages of hand watering.
 - _____ 15. Select true statements about the proper procedure for using a greenhouse watering system to feed plants.
 - _____ 16. Select true statements about proper humidity and ventilation.
 - _____ 17. Water by hand. (Job Sheet 1)
 - _____ 18. Check moisture levels. (Job Sheet 2)
 - _____ 19. Determine watering frequency. (Job Sheet 3)
 - _____ 20. Check water temperature, water by hand, and leach soil. (Job Sheet 4)
 - _____ 21. _____
- Pretest Score (%) _____
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UNIT 7 - PLANT GROWTH AND RESPONSES

- _____ 1. Match the primary parts of a plant to their correct descriptions.
 - _____ 2. Label primary parts of a plant. (Assignment Sheet 1)
 - _____ 3. Label parts of monocot and dicot vascular systems.
 - _____ 4. Match parts of monocot and dicot vascular systems to their correct descriptions.
 - _____ 5. Describe types of root systems.
 - _____ 6. Match parts of a complete flower to their correct descriptions.
 - _____ 7. Label parts of a complete flower. (Assignment Sheet 2)
 - _____ 8. Describe the process and formula for photosynthesis.
 - _____ 9. Describe the process and formula for respiration.
 - _____ 10. Describe cultural and environmental factors affecting plant growth.
 - _____ 11. Diagnose plant environmental problems and recommend solutions. (Assignment Sheet 3)
 - _____ 12. Describe plant nutrients.
 - _____ 13. Diagnose plant nutritional problems. (Assignment Sheet 4)
 - _____ 14. _____
- Pretest Score (%) _____
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UNIT 8 - INTRODUCTION TO FLORAL DESIGN

- _____ 1. Match tools used in floral design to their correct uses.
 - _____ 2. Describe common materials used in floral design.
 - _____ 3. Match common wire sizes to their correct uses.
 - _____ 4. Match common ribbon sizes to their correct uses.
 - _____ 5. Describe uses for common types of floral containers.
 - _____ 6. Select from a list guidelines for using color in floral design.
 - _____ 7. Define the basic principles of design.
 - _____ 8. Identify basic types of floral arrangements.
 - _____ 9. Recall uses, shapes, and examples of types of flowers and foliage used in floral design. (Assignment Sheet 1)
 - _____ 10. List characteristics of common cut flowers and foliage used in floral design. (Assignment Sheet 2)
 - _____ 11. Prepare and care for cut flowers. (Job Sheet 1)
 - _____ 12. Make a bud vase arrangement. (Job Sheet 2)
 - _____ 13. Wire a flower using the piercing method. (Job Sheet 3)
 - _____ 14. Wire a flower using the hook wire method. (Job Sheet 4)
 - _____ 15. Make a corsage bow. (Job Sheet 5)
 - _____ 16. Make a boutonniere. (Job Sheet 6)
 - _____ 17. Make a two-flower corsage. (Job Sheet 7)
 - _____ 18. Create a symmetrical arrangement. (Job Sheet 8)
 - _____ 19. Create an asymmetrical arrangement. (Job Sheet 9)
 - _____ 20. Make a wreath. (Job Sheet 10)
 - _____ 21. _____
- Pretest Score (%) _____
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UNIT 9 - INTRODUCTION TO DECIDUOUS PLANTS

- _____ 1. List features used to identify deciduous plants.
 - _____ 2. Label the parts of a leaf of a deciduous plant.
 - _____ 3. Label types of leaves associated with deciduous plants.
 - _____ 4. Label common deciduous leaf arrangements.
 - _____ 5. Identify leaf characteristics of deciduous plants. (Assignment Sheet 1)
 - _____ 6. Describe types of flowers on deciduous plants.
 - _____ 7. Label deciduous plant forms.
 - _____ 8. Select true statements regarding deciduous plants. (Assignment Sheet 2)
 - _____ 9. List qualities to consider when selecting a deciduous plant for a landscape.
 - _____ 10. List landscape uses for deciduous trees and shrubs.
 - _____ 11. Research deciduous plants. (Assignment Sheet 3)
 - _____ 12. _____
- Pretest Score (%) _____
- Post Test Score (%) _____
- Modified Gains Score (%) _____

UNIT 10 - CHEMICAL SAFETY

- _____ 1. Select from a list true statements concerning pesticide classifications.
 - _____ 2. Match common types of chemical controls used in horticulture to their correct descriptions.
 - _____ 3. Match the ways chemical controls work to their correct descriptions.
 - _____ 4. Match types of chemical control applications to their correct descriptions.
 - _____ 5. Distinguish between acute and chronic toxicity.
 - _____ 6. Define oral, dermal, and inhalation toxicity.
 - _____ 7. List symptoms of pesticide poisoning.
 - _____ 8. State chemical safety precautions.
 - _____ 9. Complete statements about personal safety precautions for handling chemicals.
 - _____ 10. Complete statements about the importance of protective clothing and equipment.
 - _____ 11. List pesticide information included on pesticide labels.
 - _____ 12. Select from a list true statements concerning rules for chemical storage.
 - _____ 13. Select from a list true statements concerning guidelines for hazardous waste disposal.
 - _____ 14. Match types of spray equipment to their correct uses.
 - _____ 15. Select from a list true statements about the information on a hazardous materials classification card.
 - _____ 16. Answer questions about chemical labels. (Assignment Sheet)
 - _____ 17. Clean chemical containers for disposal. (Job Sheet 1)
 - _____ 18. Clean spray equipment after pesticide use. (Job Sheet 2)
 - _____ 19. Clean spray equipment after herbicide use. (Job Sheet 3)
 - _____ 20. _____
- Pretest Score (%) _____
- Post Test Score (%) _____
- Modified Gains Score (%) _____

UNIT 11 - INTRODUCTION TO PLANT GROWTH MEDIA

- _____ 1. Select from a list true statements about the importance of pH values.
 - _____ 2. Describe requirements for a good plant medium.
 - _____ 3. Select from a list true statements about porosity.
 - _____ 4. Match characteristics of materials used in mixing soil media to their correct descriptions.
 - _____ 5. Describe the advantages of a soilless mixture.
 - _____ 6. Mix 1:1:1 soilless media. (Job Sheet)
 - _____ 7. Compare plant growth in different media mixes. (Assignment Sheet)
 - _____ 8. _____
- Pretest Score (%) _____
- Post Test Score (%) _____
- Modified Gains Score (%) _____

UNIT 12 - ELEMENTARY STUDY OF SOILS

- _____ 1. Select from a list statements describing how soil is formed.
- _____ 2. List composition ratios of an average soil particle.
- _____ 3. Describe soil texture.
- _____ 4. Distinguish among types of soil particles.
- _____ 5. Calculate soil type. (Assignment Sheet 1)
- _____ 6. Explain how soil particle size affects the movement of water through soil.

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- _____ 7. Match types of soil water to their descriptions.
 - _____ 8. State pH values for soil types.
 - _____ 9. Distinguish between methods of adjusting soil pH.
 - _____ 10. Recommend treatments for pH problems in soils. (Assignment Sheet 2)
 - _____ 11. Determine pH requirements of greenhouse and nursery plants. (Assignment Sheet 3)
 - _____ 12. Test soil pH value with litmus paper. (Job Sheet)
 - _____ 13. _____
- Pretest Score (%) _____
 Post Test Score (%) _____
 Modified Gains Score (%) _____

UNIT 13 - INTRODUCTION TO FERTILIZERS

- _____ 1. Label components of complete fertilizer formula (Guaranteed analysis).
 - _____ 2. Distinguish values of essential plant food elements nitrogen, phosphorus, and potassium.
 - _____ 3. Match secondary elements necessary for growth and development to their descriptions.
 - _____ 4. Select from a list micronutrients required for plant growth and development.
 - _____ 5. Describe types of commercial fertilizers.
 - _____ 6. Match manual indoor and outdoor application methods to their correct descriptions.
 - _____ 7. State rules for storing fertilizer bags.
 - _____ 8. State regulations for handling fertilizers.
 - _____ 9. Select from a list information required on fertilizer bags.
 - _____ 10. Analyze information required on fertilizer bags. (Assignment Sheet 1)
 - _____ 11. Use fertilizer label and ppm to calculate amount of dry fertilizer to be added to an injector system tank. (Assignment Sheet 2)
 - _____ 12. _____
- Pretest Score (%) _____
 Post Test Score (%) _____
 Modified Gains Score (%) _____

UNIT 14 - PLANT PROPAGATION

- _____ 1. Distinguish between reasons for using sexual or asexual propagation methods.
 - _____ 2. Name parts of a seedling.
 - _____ 3. Arrange in order the steps in germination.
 - _____ 4. Describe factors that affect germination.
 - _____ 5. Identify hardiness zones. (Assignment Sheet 1)
 - _____ 6. Create zone and frost-date charts. (Assignment Sheet 2)
 - _____ 7. Determine planting and shipping dates. (Assignment Sheet 3)
 - _____ 8. Name methods of seeding.
 - _____ 9. Seed a flat with fine seeds. (Job Sheet 1)
 - _____ 10. List types of seeds available.
 - _____ 11. Define methods of speeding germination.
 - _____ 12. Define scarification techniques.
 - _____ 13. Scarify seeds by file or sandpaper method. (Job Sheet 2)
 - _____ 14. Stratify seeds. (Job Sheet 3)
 - _____ 15. Match factors affecting successful asexual propagation to their correct definitions.
 - _____ 16. Match types of asexual propagation for greenhouse operations to their correct descriptions.
 - _____ 17. Propagate herbaceous stem cuttings. (Job Sheet 4)
 - _____ 18. Propagate a leaf cutting. (Job Sheet 5)
 - _____ 19. Match types of asexual propagation methods for nursery operations to their correct descriptions.
 - _____ 20. Match types of stem cuttings to the proper season for taking cuttings.
 - _____ 21. Match types of layering to their correct definitions.
 - _____ 22. Air layer plants. (Job Sheet 6)
 - _____ 23. Name types of budding methods used in nursery operations.
 - _____ 24. Propagate hardwood cuttings. (Job Sheet 7)
 - _____ 25. Bud by t-bud method. (Job Sheet 8)
 - _____ 26. Bud by patch method. (Job Sheet 9)
 - _____ 27. Distinguish among types of grafts used in nursery production.
 - _____ 28. Graft by whip and tongue method. (Job Sheet 10)
 - _____ 29. Graft by bark graft method. (Job Sheet 11)
 - _____ 30. _____
- Pretest Score (%) _____
 Post Test Score (%) _____
 Modified Gains Score (%) _____

Date/Initials

UNIT 15 - INTRODUCTION TO INDOOR PLANTS

- _____ 1. Distinguish between types of indoor plants.
 - _____ 2. List primary uses of indoor plants.
 - _____ 3. Explain environmental factors that affect indoor plant maintenance.
 - _____ 4. Describe categories of plant lighting requirements.
 - _____ 5. Place plants according to their lighting requirements. (Assignment Sheet 1)
 - _____ 6. Select from a list characteristics of sick plants.
 - _____ 7. Name common plant pests.
 - _____ 8. Research indoor plants. (Assignment Sheet 2)
 - _____ 9. _____
- Pretest Score (%) _____
 Post Test Score (%) _____
 Modified Gains Score (%) _____

UNIT 16 - REPOTTING GREENHOUSE AND INDOOR PLANTS

- _____ 1. Select from a list statements about materials used in making containers.
 - _____ 2. Match types of potting containers to their correct descriptions.
 - _____ 3. State factors used in selecting growing pots.
 - _____ 4. Select from a list reasons to use hanging baskets
 - _____ 5. State signs that repotting is needed
 - _____ 6. Repot a plant. (Job Sheet)
 - _____ 7. _____
- Pretest Score (%) _____
 Post Test Score (%) _____
 Modified Gains Score (%) _____

UNIT 17 - INTRODUCTION TO EVERGREENS

- _____ 1. List features used to identify evergreens.
 - _____ 2. Describe parts of a leaf of a broad-leaved evergreen.
 - _____ 3. Describe types of leaves associated with broad-leaved evergreens.
 - _____ 4. Label types of leaves associated with narrow-leaved evergreens.
 - _____ 5. Describe common evergreen leaf arrangements.
 - _____ 6. Describe types of flowers on a broad-leaved evergreen.
 - _____ 7. Label evergreen plant forms.
 - _____ 8. Select from a list qualities to consider when selecting an evergreen for a landscape.
 - _____ 9. List landscape uses for evergreens.
 - _____ 10. Select true statements regarding narrow-leaved and broad-leaved evergreens. (Assignment Sheet 1)
 - _____ 11. Research evergreens. (Assignment Sheet 2)
 - _____ 12. _____
- Pretest Score (%) _____
 Post Test Score (%) _____
 Modified Gains Score (%) _____

UNIT 18 - INTRODUCTION TO TRANSPLANTING

- _____ 1. Name types of transplanted stock.
 - _____ 2. Name factors to consider when transplanting trees and shrubs.
 - _____ 3. Select from a list examples of organic and inorganic mulches.
 - _____ 4. Select from a list reasons for mulching.
 - _____ 5. Select from a list true statements about comparisons between ball-and-burlap method and bare-root method.
 - _____ 6. Describe advantages and disadvantages of transplanting container stock.
 - _____ 7. Determine ball size. (Assignment Sheet)
 - _____ 8. Transplant seedlings from a flat into pots. (Job Sheet 1)
 - _____ 9. Transplant rooted cuttings into pots. (Job Sheet 2)
 - _____ 10. Ball and burlap a tree or shrub. (Job Sheet 3)
 - _____ 11. Transplant balled-and-burlapped stock. (Job Sheet 4)
 - _____ 12. Transplant a bare-root tree or shrub. (Job Sheet 5)
 - _____ 13. Transplant container stock. (Job Sheet 6)
 - _____ 14. Heel-in bare-root stock. (Job Sheet 7)
 - _____ 15. _____
- Pretest Score (%) _____
 Post Test Score (%) _____
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UNIT 19 - INTRODUCTION TO PRUNING

- _____ 1. Select from a list reasons for pruning.
 - _____ 2. Match types of trees or shrubs to their proper pruning times.
 - _____ 3. Match tools used for pruning to their correct uses.
 - _____ 4. State rules for care of pruning equipment.
 - _____ 5. Match parts of a tree structure to their correct descriptions.
 - _____ 6. State reasons why specific parts of a tree should be pruned.
 - _____ 7. Determine which parts of a tree to prune. (Assignment Sheet)
 - _____ 8. Make a proper pruning cut with hand pruners. (Job Sheet 1)
 - _____ 9. Make a proper pruning cut to a lateral bud. (Job Sheet 2)
 - _____ 10. Remove a large branch from a tree. (Job Sheet 3)
 - _____ 11. _____
- Pretest Score (%) _____
- Post Test Score (%) _____
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UNIT 20 - INTRODUCTION TO VEGETABLES AND SMALL FRUITS

- _____ 1. Match small fruits and vegetables to their proper classifications based on the part of the plant that consumers use.
 - _____ 2. Match plant types to proper classifications based on their hardiness (freezing temperature tolerance).
 - _____ 3. Describe physical factors and requirements for vegetable and small-fruit production.
 - _____ 4. Match types of growing structures to their correct descriptions.
 - _____ 5. Select true statements concerning goals of soil preparation.
 - _____ 6. Match methods of soil cultivation to their correct descriptions.
 - _____ 7. Distinguish between advantages of raised bed planting methods and advantages of flat bed planting methods.
 - _____ 8. Distinguish between advantages of direct seeding and advantages of transplanting.
 - _____ 9. List small fruits common to Oklahoma.
 - _____ 10. State similarities and differences in small-fruit cultures.
 - _____ 11. Look up information in Oklahoma State University Extension fact sheets. (Assignment Sheet 1)
 - _____ 12. Plan a small vegetable garden. (Assignment Sheet 2)
 - _____ 13. Plan a fruit garden. (Assignment Sheet 3)
 - _____ 14. _____
- Pretest Score (%) _____
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Date/Initials

UNIT 21 - INTRODUCTION TO GARDEN FLOWERS

- _____ 1. Describe life cycles of garden flowers.
 - _____ 2. Match plant structures to their correct names.
 - _____ 3. Match perennials with their correct propagation methods.
 - _____ 4. Describe uses of garden flowers.
 - _____ 5. Select from a list considerations for planting a flower bed or border.
 - _____ 6. State general soil type and pH range for garden soils.
 - _____ 7. Describe light exposure requirements and characteristics of ten species of annuals.
 - _____ 8. Describe light exposure requirements and characteristics of two species of biennials.
 - _____ 9. Describe light exposure requirements and characteristics of ten species of flowering perennials.
 - _____ 10. Describe light exposure requirements and characteristics of five species of ground cover and vines.
 - _____ 11. Describe light exposure, soil, and moisture requirements for three species of bulbs.
 - _____ 12. Select compatible varieties of flowers to be planted in full sun and partial shade. (Assignment Sheet 1)
 - _____ 13. Plan a garden or border using varieties of annuals, biennials, and perennials. (Assignment Sheet 2)
 - _____ 14. Prepare a soil bed. (Job Sheet 1)
 - _____ 15. Grow flowering annuals from seed. (Job Sheet 2)
 - _____ 16. Care for plants after planting. (Job Sheet 3)
 - _____ 17. _____
- Pretest Score (%) _____
- Post Test Score (%) _____
- Modified Gains Score (%) _____