

Directions:	Evaluate the trainee using the rating scale below and check the appropriate number to indicate the degree of competency achieved. The numerical ratings of 3, 2, 1, and 0 are not intended to represent the traditional school grading system of A, B, C, D, and F. The descriptions associated with each of the numbers focus on level of student performance for each of the tasks listed below.
Rating Scale:	<p>0 - No Exposure - no information nor practice provided during training program, complete training required.</p> <p>1 - Exposure Only - general information provided with no practice time, close supervision needed and additional training required.</p> <p>2 - Moderately Skilled - has performed independently during training program, limited additional training may be required.</p> <p>3 - Skilled - can perform independently with no additional training.</p>
1. Number of Competencies Evaluated _____ 2. Number of Competencies Rated 2 or 3 _____ 3. Percent of Competencies Attained (2/1) _____ Grade _____ Instructor Signature _____ Date _____	

01.0 The Organisms

The student will be able to:

0 1 2 3

- 01.01 List the groups found in the classification system and classify a plant using the classification system
- 01.02 Describe the kingdoms and the types of organisms found within each kingdom
- 01.03 List the phylums of the plant kingdom

02.0 Cell Structure

The student will be able to:

0 1 2 3

- 02.01 Identify the parts of the plant cell and the functions of each
- 02.02 Identify the parts of the animal cell and the functions of each
- 02.03 Distinguish the difference between plant and animal cells
- 02.04 List three specialized cells found within the plant and determine how they differ from the basic plant cell

03.0 Functions of Cells

The student will be able to:

0 1 2 3

- 03.01 Identify the composition of protoplasm
- 03.02 Describe the importance of energy to the functioning of the cell and where the energy is found within the cell
- 03.03 Discuss the compounds formed in the cell and the functions of each of these compounds to the cell

04.0 Dividing Cells

The student will be able to:

0 1 2 3

- 04.01 Identify the parts of the cell dealing with cell division
- 04.02 Describe the importance of genes and chromosomes to cell division
- 04.03 Describe the process of mitosis
- 04.04 Describe the process of meiosis

05.0 Plant Processes

The student will be able to:

0 1 2 3

- 05.01 List the important plant processes in food manufacture and growth
- 05.02 Explain why photosynthesis is an important process
- 05.03 Explain the chemical process of photosynthesis
- 05.04 List factors that affect photosynthetic rate
- 05.05 Explain the chemical process of respiration
- 05.06 Distinguish between characteristics of photosynthesis and respiration
- 05.07 Explain transpiration and list factors that affect transpiration rate
- 05.08 Explain osmosis and the process of absorption by plant roots
- 05.09 Discuss the process of conduction

06.0 Nonvascular Plants

The student will be able to:

0 1 2 3

- 06.01 Classify the major phyla of nonvascular plants
- 06.02 Explain how algae differ from land plants
- 06.03 List the plant parts commonly found on nonvascular plants
- 06.04 Discuss the importance of nonvascular plants to the plant world
- 06.05 Explain the methods of reproduction in nonvascular plants

07.0 Vascular Plants

The student will be able to:

0 1 2 3

- 07.01 Label the parts common to all vascular plants
- 07.02 Discuss the advantages of a vascular plant to a nonvascular plant
- 07.03 List the methods of reproduction in a vascular plant

08.0 Vegetative Plant Parts

The student will be able to:

0 1 2 3

- 08.01 List the primary parts and functions of the vegetative plant
- 08.02 Identify the parts of the leaf and functions of the leaf
- 08.03 Label a drawing showing the parts of a plant stem
- 08.04 Describe the functions of plant stems
- 08.05 Match stem modification with correct descriptive terms
- 08.06 Identify the parts of the root and the functions of each part
- 08.07 Describe the two types of root systems
- 08.08 Describe the two types of vascular systems found in the vegetative plant

09.0 Reproductive Plant Parts

The student will be able to:

0 1 2 3

- 09.01 List the primary parts of the reproductive system and the functions of each part
- 09.02 Identify the parts of the flower
- 09.03 Describe the functions of the flower parts
- 09.04 Define what a fruit is and list the tissue layers of the fruit
- 09.05 Describe two main types of fruits
- 09.06 Label a drawing showing the parts of a seed
- 09.07 Describe the functions of the seed parts

10.0 Vegetative Plant Growth

The student will be able to:

0 1 2 3

- 10.01 List the stages of plant growth and development
- 10.02 List the conditions affecting the vegetative growth of plants
- 10.03 Discuss the nutrients needed for proper plant growth
- 10.04 Explain the relationships between reproductive and vegetative plant growth
- 10.05 Describe the three processes involved in vegetative growth

11.0 Reproductive Plant Growth

The student will be able to:

0 1 2 3

- 11.01 Discuss sexual and asexual reproduction in plants
- 11.02 List the different types of reproductive growth
- 11.03 List the methods of pollination
- 11.04 Discuss the difference between pollination and fertilization
- 11.05 Explain the development of the seed
- 11.06 Describe the steps in seed germination
- 11.07 List the requirements for good seed germination
- 11.08 List the factors that cause poor seed germination
- 11.09 Diagram the vegetative and reproductive stages of plant growth as it relates to the plant life cycle