

<b>Directions:</b>	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.
<b>Rating Scale:</b>	<p><b>0 - No Exposure</b> - no information nor practice provided during training program, complete training required.</p> <p><b>1 - Exposure Only</b> - general information provided with no practice time, close supervision needed and additional training required.</p> <p><b>2 - Moderately Skilled</b> - has performed independently during training program, limited additional training may be required.</p> <p><b>3 - Skilled</b> - 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