

Unit: Plant Science

Name _____

Lesson 3: Plant Growth Factors

Date _____

Evaluation

True/False (Place the correct response in the blank provided.)

- F 1. Environment has very little effect on plant growth.
- T 2. Photosynthesis requires sunlight, water, and carbon dioxide.
- F 3. Colder temperatures increase plant growth.
- T 4. Plant growth is related to temperature.

Circle the letter that corresponds to the best answer.

5. Which process changes carbon dioxide and water into sugar?
- a. Osmosis
 - b. Phototropism
 - c. Diffusion
 - d. Photosynthesis

Correct answer is d.

6. In which process does the growing part of the plant move toward the sunlight?
- a. Absorption
 - b. Phototropism
 - c. Photosynthesis
 - d. Photoperiodism

Correct answer is b.

7. The plant's reaction to light in stimulating flower development is related to
- a. Photosynthesis
 - b. Photoperiodism
 - c. Phototropism
 - d. Osmosis

Correct answer is b.

Essential elements can be categorized depending upon the amount needed by the plant. Place the correct element in the blanks beneath each category.

8. Primary macronutrients

- a. Nitrogen
- b. Phosphorus
- c. Potassium

NOTE: Answers to 8, 9, and 10 can be in any order.

9. Secondary macronutrients

- a. Calcium
- b. Magnesium
- c. Sulfur

10. Micronutrients

- a. Boron
- b. Manganese
- c. Copper
- d. Zinc
- e. Iron
- f. Chloride
- g. Molybdenum