

### Principle 3 - Fertilizer Basics Activity

Mark the correct answer(s). Return for grading to complete the course.

Name:

Score (office use):

1. Of the essential nutrients plants obtain from soil, the one that is most often deficient in Florida soils is \_\_\_\_\_.
  - a. calcium
  - b. nitrogen
  - c. iron
  - d. phosphorous
  - e. manganese
2. The chemical symbol for potassium is \_\_\_\_\_.
  - a. P
  - b. Po
  - c. Pt
  - d. K
  - e. Sb
3. Which of the following are not micronutrients?
  - a. potassium
  - b. boron
  - c. magnesium
  - d. iron
  - e. molybdenum
4. A soil with a pH of 6.5 would be considered \_\_\_\_\_.
  - a. slightly alkaline
  - b. neutral
  - c. slightly acidic
  - d. very acidic
  - e. very alkaline
5. Soil pH is important to plants because \_\_\_\_\_.
  - a. It determines the solubility of fertilizers
  - b. High pH can cause micronutrient deficiencies
  - c. Low pH can cause nutrient toxicities
  - d. All of the above

Please see next page.

Use the sample fertilizer label to the right for the following questions.

6. If this is a 50 pound bag of fertilizer, how many pounds of nitrogen are in the bag?

- a. 6 pounds
- b. 12 pounds
- c. 4.6 pounds
- d. 3 pounds

7. How many pounds of water insoluble fertilizer are in this 50 pound bag?

- a. 5 pounds
- b. 0 pounds
- c. 2.3 pounds
- d. 2.5 pounds

8. If you are applying this fertilizer to your Florida lawn in March, what rate would you use?

- a. 2 pounds per 1000 square feet
- b. 1 pound per 1000 square feet
- c. 3/4 pound per 1000 square feet
- d. 1/2 pound per 1000 square feet

9. If you are applying at the rate of 1/2 pound per 1000 square feet to a lawn area that measures 100' by 50', how many 50 pound bags of fertilizer would you need?

- a. 5 bags
- b. 4 bags
- c. 3 bags
- d. 2 bags
- e. 1 bag

10. I have learned information from this section that will help me make better decisions on the use and selection of fertilizers to help protect the environment?

- a. True
- b. False
- c. Don't know

GUARANTEED ANALYSIS	
Total Nitrogen .....	6.00%
Nitrate Nitrogen .....	1.40%
Ammoniacal Nitrogen .....	4.60%
Water Soluble Organic Nitrogen .....	0.00%
Water Insoluble Nitrogen .....	0.00%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	4.00%
Soluble Potash (K <sub>2</sub> O) .....	6.00%
Chlorine, not more than .....	4.00%
Derived from: DiAmmonium Phosphate, Ammonium Nitrate, Sulphate Potash Magnesia, Muriate of Potash, and Sulphate of Ammonia	
Statement of Secondary Plant Nutrients:	
Total Magnesium as Mg .....	1.20%
Water Sol. Mag. as Mg .....	1.20%
Boron as B .....	0.02%
Copper as Cu .....	0.05%
Iron as Fe .....	0.50%
Manganese as Mn .....	0.06%
Molybdenum as Mo .....	0.0005%
Zinc as Zn .....	0.05%
Derived From: Sulphate Potash Magnesia, Borate, Copper Oxide, Iron Sulphate, Manganous Oxide, Sodium Molybdate, Zinc Oxide.	