

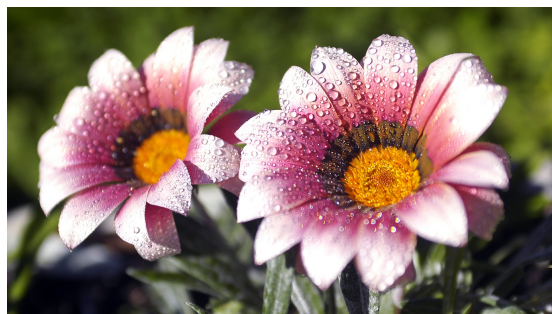


Worksheet 2

What elements do plants need?



For successful growth and reproduction, plants need a supply of various nutrients. Note that in the human body system and in nutrition, nutrients refer to molecules, such as carbohydrates, fats, and proteins. However, for plants, nutrients simply mean elements! Yes, elements from the periodic table! Plants absorb nutrients from soil and/or water that are transformed into sugars, starch, plant structural materials, colorful pigments, and other essential substances that they need. What elements do they need to grow? Let's take a look at the periodic table of elements and identify what plants might need. Circle the elements that you think plants might need, list those elements in the table below, and explain what makes you think plants might need the element.



The pictures show various plants growing and harvested. The label on the right is a nutrient label of a commercial fertilizer.



NUTRIENT-RICH LAWN FERTILIZER

 **BioGreen's®**
18-0-4

Growing Healthy Turf Safely and Naturally
Apply Any Time Between March To October

Guaranteed Minimum Analysis	
Total Nitrogen (N).....	18.00%
13.8% Urea Nitrogen	
3.15% Ammoniacal Nitrogen	
1.05% Water Insoluble Organic Nitrogen	
Soluble Potash (K ₂ O).....	4.00%
Sulfur (S).....	6.00%
Calcium (Ca).....	8.98%
Iron (Fe).....	0.50%

Derived From: Corn Gluten, Sulfate of potash, Gypsum, Hi-calcium lime, Humates, Feather Meal, Ammoniated Aerobically Composted Poultry Manure, Ammonium Sulfate, Feed Urea, Alfalfa and Wheat Glutens, Iron Sulfate, Paramagnetic Glacial Ground Rock Mineral Powders.

Apply 5 to 6 lbs./1000 sq. ft. every six weeks during the growing season.
Always Calibrate Spreader Before Applying Fertilizer.

BioGreen LLC (847) 748-9637 **NET CONTENTS: 50 lb.** 32937 Gilmer Road, Volo IL 60073
www.biogreenllc.net

*	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb
**	89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No

[illegible]