BOTANY, PLANT PHYSIOLOGY AND PLANT GROWTH

Lesson 9: Plant Nutrition Teachers answer sheet

Nutrients to monitor closely

- Some elements are less likely to be deficient. Place an asterisk before the nutrients that typically are present in sufficient amounts in air, water, and Minnesota soils.
- Then underline the elements without asterisks; levels of the underlined elements will need to be monitored more closely.

MACRONUTRIENTS

W/ CHOIGH HILITIS				
Found in air and water	* *	carbon oxygen hydrogen		С О Н
Primary Elements		nitrogen phosphorus potassium	vegetative	<u>N</u> <u>P</u> <u>K</u>
Secondary Elements	*	calcium magnesium sulfur	cell wall chlorophyll	<u>Ca</u> <u>Mg</u> S
MICRONUTRIENTS	* * * * * *	iron manganese copper zinc boron molybdenum chlorine cobalt		Fe Mn Cu Zn B Mo Cl

Nutrients to associate with key functions:

- Find the element having a key function in producing vegetative growth rather than reproductive growth. Write "vegetative" after the element.
- Find the element that is a part of a compound in the cell wall. Write "cell wall" after the element.
- Find the element that is present in chlorophyll and that acts as a catalyst. Write "chlorophyll" after the element.

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