BOTANY, PLANT PHYSIOLOGY AND PLANT GROWTH

Lesson 9: Plant Nutrition

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		
Found in air and water	carbon	C
	oxygen	O
	hydrogen	H
Primary Elements	nitrogen	N
	phosphorus	P
	potassium	K
Secondary Elements	calcium	Ca
	magnesium	Mg
	sulfur	S
MICRONUTRIENTS	iron	Fe
	manganese	Mn
	copper	Cu
	zinc	Zn
	boron	B
	molybdenum	Mo
	chlorine	Cl
	cobalt	Co

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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