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UNIT 1

Fertilizer – Organic vs. Synthetic, Omnivore's Dilemma,
Companion Planting

9/1 Vegetable Companion Planting Guide

Obj. TSW learn about companion planting and how certain plants grow well together and others inhibit growth. P. 26 NB

Plant	Good Companions	Don't Plant With!
 BEANS	Sunflowers, cabbage, cucumber and strawberries	Onions, garlic or fennel
 CARROTS	Lettuce, chives, leeks, rosemary, sage and peas	Strawberries, fennel or cabbage
 LETTUCE	Carrots, beans, peas, pumpkin, squash, cucumber and melons	Cabbage, tomatoes or celery
 CUCUMBER	Radishes, peas, beets, corn, beans and carrots	Potatoes or sage
 DILL	Beans and lettuce	Cabbage, carrots, caraway, chili, bell peppers, fennel, lavender or potatoes
 RADISH	Chervil, cucumber and squash	Cauliflower, cabbage, turnips or Brussels sprouts
 SPINACH	Strawberries, beans and peas	No bad companions - easy!
 TURNIPS	Peas	Beans or potatoes
 POTATOES	Tomatoes, Marigold, beans, maize and the cabbage family	Pumpkin, cucumber, squash, melons, sunflowers or tomatoes

1. Look at your vegetable companion planting guide, what grows well with peas?
2. We will be growing Onions, Garlic and Potatoes this Fall, what should we not plant with them?
3. If we plant cauliflower, what should we not plant in that bed?

9/2 Characteristics of Soils

Obj. TSW learn how to create healthy productive soils. P. 28 NB

1. What did you observe yesterday during the porosity/ permeability demonstration?
2. The 2-liter bottle that had gravel with dirt allowed the water to flow faster than our beautiful healthy compost, why?
3. What else could we add to our compost that we are improving that might improve drainage/permeability?

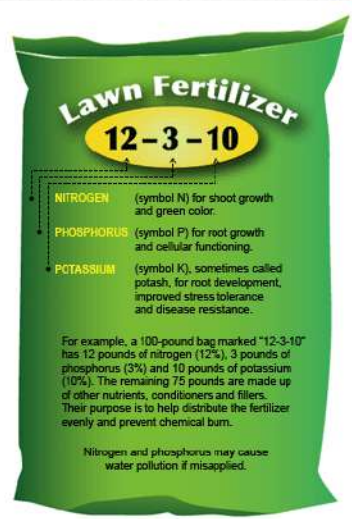
N-P-K

- **Nitrogen (N)** – Promotes new green growth
 - Component of Proteins, DNA, RNA, ATP, and Chlorophyll
- **Phosphorus (P)** – Promotes production of blooms, flowers, seeds, and **root development**.
 - Component of DNA, RNA, and ATP
 - Transplanting
- **Potassium (K)** – Promotes cell-wall thickening, protecting plants against cold temperatures, pests, and disease.
 - Regulates water use and nutrient movement in cells
 - Activates plant enzymes involved in processes such as photosynthesis and respiration

9/6 Types of Fertilizers

Obj. TSW learn about different types of fertilizers by taking notes and experimenting. P. 30 NB

1. What is fertilizer?
2. How can fertilizer help plants grow?
3. What are the three main elements in fertilizer?



9/7 Omnivore's Dilemma

Obj. TSW discuss a new perspective of food
after reading Ch 2. P. 32 NB

1. Discuss Pollan's second chapter in Omnivore's Dilemma. How does what he says change the way you think about food?
2. What is a Hybrid?
3. How has "The Farm" changed since 1920?



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