

Soil Matters!

Fun with Plant Nutrients!

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Agriculture in the Classroom

Agenda

- Introductions
- Resource Review
- Chemistry Time!
- Fantastic Facts
- What's Growin' On?
- Wrap Up



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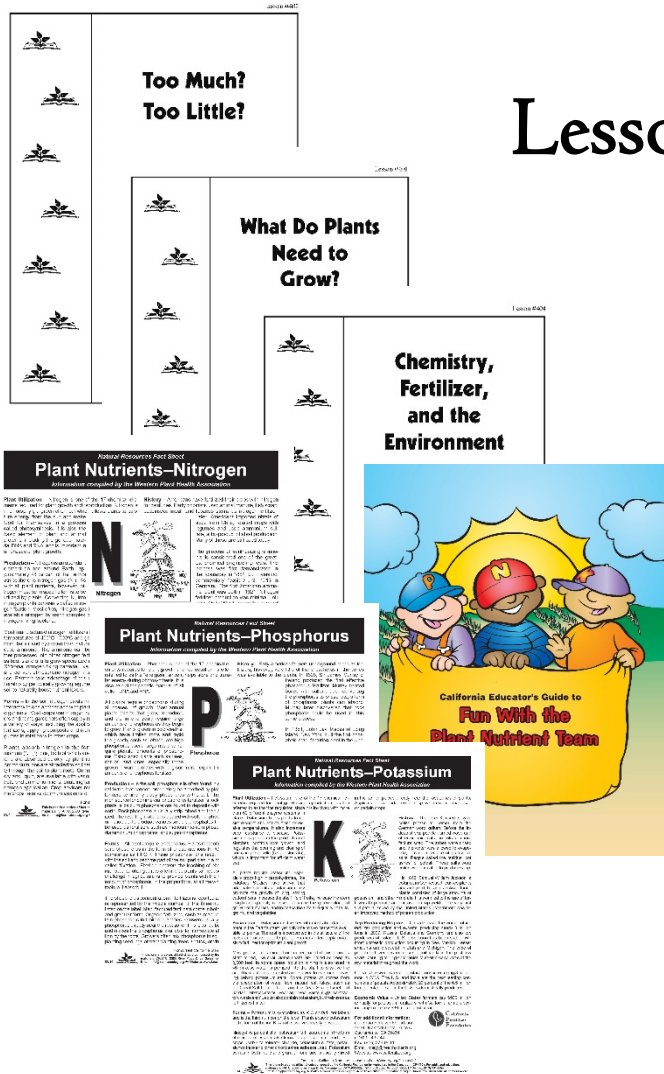
Who We Are

- California Ag!
- 30 years
- Non-profit
- Affiliate of CFBF
- Who are you?



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Plant Nutrient Lesson Plans & Fact Sheets



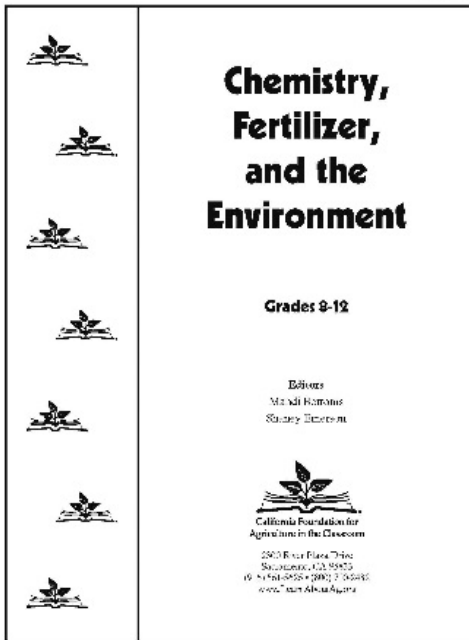
- 4 units for all grade levels K-12
- Written and evaluated by teachers and industry
- FREE
- LearnAboutAg...Plant Nutrients



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Chemistry, Fertilizer, and the Environment

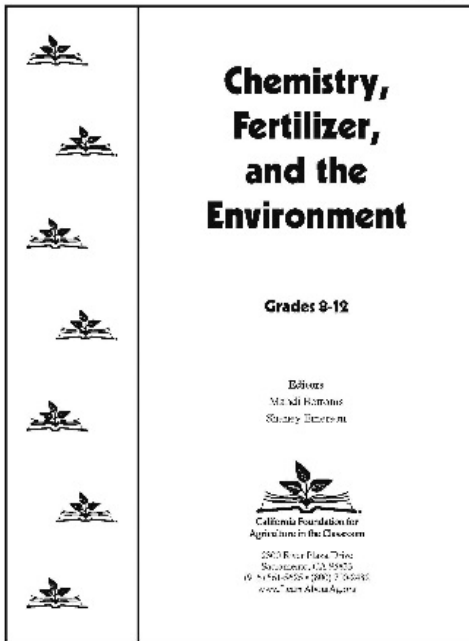
Lesson #424



- For grades 8-12
- Hands-on labs
- Five lesson unit
- Uses agriculture to teach chemistry and environmental science

Chemistry, Fertilizer, and the Environment

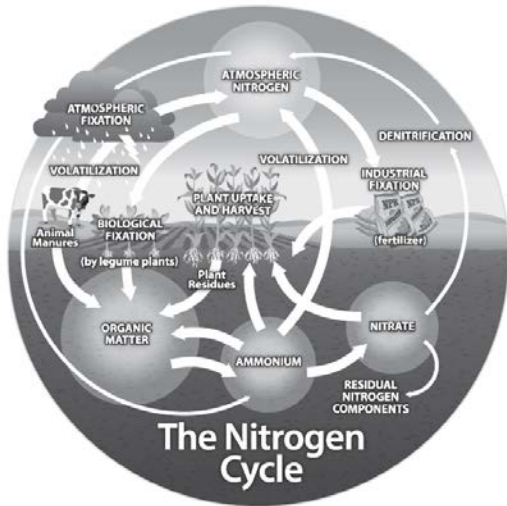
Lesson #424



- Aligned to CCSS and NGSS
- NALO tie-ins
- Opportunity to showcase careers

Lesson: Matter of Fact

- Highlights from the lesson
 - Background
 - Procedure
 - Activity
 - Instructions
 - Groups or Partners
 - Stations



Activity: Nitrogen Stations



1. Atmosphere
2. Soil
3. Fertilizer
4. Plant
5. Waste/Decay
6. Body of Water
7. Groundwater



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Think About It!



1. How many different forms of nitrogen did you become in this cycle?
2. Explain how plants obtain nitrogen.
3. Explain the role of bacteria in the nitrogen cycle.
4. How could human activity adversely or beneficially affect the natural cycling of nitrogen in the environment?



Let's Play! Molecular Shuffle

- On our website at learnaboutag.org/resources/learn_plant.cfm
- Great for review



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Poster Competition

- Work in groups.
- Make a poster, skit, or song illustrating the various roles plant nutrients play in plant growth and health.
- Share with the class.

Plant Nutrients—Nitrogen
Information compiled by the Western Plant Health Association

N
Nitrogen




Plant Nutrients—Phosphorus
Information compiled by the Western Plant Health Association

P
Phosphorus

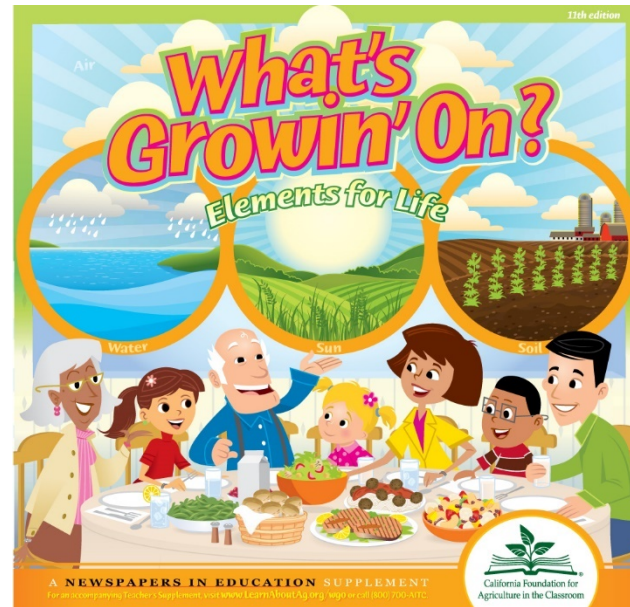
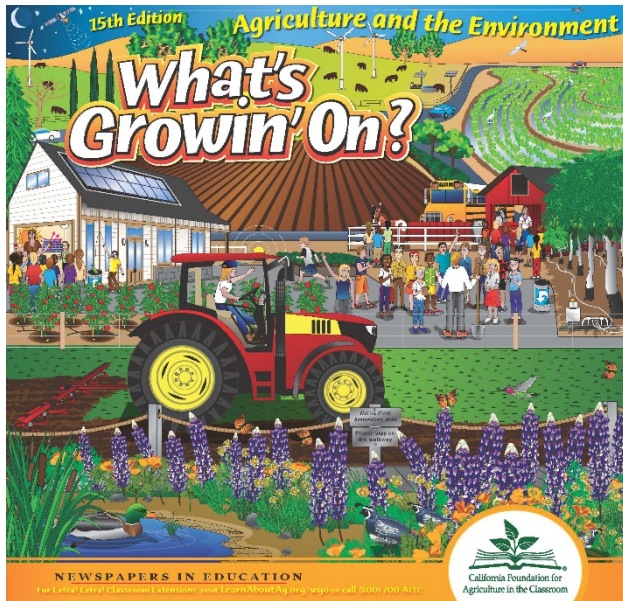


Plant Nutrients—Potassium
Information compiled by the Western Plant Health Association

K
Potassium



What's Growin' On?



Wrap up!

- Check out our website at LearnAboutAg.org
- Prizes
- Comments
- Questions



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Thank you!



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