



From Farm Road

48th DAA Schools' Agriculture and Nutrition Program Fair Fall 2015 www.agfair.org

Located at:
Bldg. F10 Farm Road,
Mt. San Antonio College

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Mission

To increase the understanding, appreciation and participation of urban teachers and students in agriculture and nutrition through cooperative involvements of the California agricultural industry, educational institutions and community partners.

Common Core Lesson — STEM Connections, Energy and Agriculture: Careers in Sustainable Energy



Grades 9–12: Standards: Common Core State Standards, Next Generation Science Standards

Brief Description

This five lesson unit with a laboratory for grades nine through twelve promotes the development of STEM abilities and critical thinking skills, while fostering an appreciation for energy and its importance to food production. The new curriculum includes inquiry-based labs and real life challenges for students to understand energy sources and their implications.

In the first lesson, Energy Flow students discover how energy is generated and distributed. This information is essential in the second lesson, Commodity Trace-back as students explore energy use in the food production system. In this lesson students investigate a specific commodity and the forms of energy used to produce the product from farm to table. The third lesson, Renewable Energy Comparison and Analysis provides knowledge and student analysis about the forms of renewable energy. An in depth investigation of one renewable

energy source is evaluated in the Lab Investigation: Bio Diesel lab as students determine the amount of energy released through the burning of bio diesel. Finally in the Farming with Renewable Energy lesson, students create renewable energy plans by analyzing farm case studies to evaluate the best use of renewable energy on real farms. These lessons can be used separately or together and may be taught in any order.

California Standards

A concerted effort to improve student achievement in all areas has impacted education throughout California. California Foundation for Agriculture in the Classroom provides educators with numerous resource materials and lessons that can be used to teach and reinforce the standards for California Public Schools, Common Core State Standards, the Next Generation Science Standards, and the Agriculture Industry Sector of the California Career Technical Education Model Curriculum Standards. The lessons encourage students to think for themselves, ask questions, and learn problem-solving skills while learning the specific content needed to better understand the world in which they live.

This unit includes lessons that can be used to teach and reinforce many of the educational standards covered in grades nine through twelve. The purpose of the unit is to strengthen Common Core skills while introducing students to careers in sustainable energy. Detailed information on the alignment of each lesson with California standards is provided on page 47.

Visit the 48th DAA office for a copy of STEM Connections, Energy and Agriculture. Also, see Did You Know? this issue for additional Common Core lessons.

Please visit our Facebook page www.facebook.com/48thDAA and click 'Like'.

Directions to 48th DAA Office:

From the 57 Freeway: Exit at Temple, go West. Turn right on Bonita, turn right at the stop sign. Continue straight through parking lot. Stay to the left and turn left onto Farm Road.

Follow directional signage.

From the 10 Freeway: Exit at Grand, go South. Turn left at Temple, turn left at Bonita, turn right at the stop sign. Continue straight through parking lot. Stay to the left and turn left onto Farm Road.

Follow directional signage.



WESTERN FAIRS ASSOCIATION

Member of Western Fairs Association



California Foundation for Agriculture in the Classroom

New Common Core Lessons

CA Foundation for Ag in the Classroom has another new resource for teachers:

California Walnuts: A Walnut Orchard Through the Seasons

Grades: 2–3

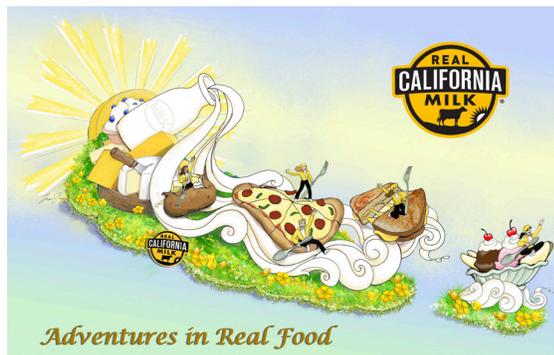
Subjects: English Language Arts

Standards: Common Core State Standards

Students will gain an understanding of the changes that take place in a walnut orchard through the different seasons of the year by reading and discussing a story about a walnut farm. Students will complete an activity sheet to learn the meaning of important vocabulary words.

Stop by the 48th DAA office or email to daa48th@aol.com to reserve your copy.

Real California Milk float featured at Rose Parade



Fiesta Parade Floats' rendering of Real California Milk's 2016 Rose Parade Float, "Adventures in Real Food." Visit <http://fiestaparadefloats.com/2016-rose-parade> for additional information and <http://www.realcaliforniamilk.com> for Real California Milk.

Foothill Hydroponics, Inc.

The exciting concept of growing food without soil—indoors, on rooftops, or on cement slabs—brings out the imagination and creativity of all participants.

For teachers and students interested in Hydroponics projects for the fair, the 48th DAA recommends Foothill Hydroponics in North Hollywood.

Foothill Hydroponics has supplied hydroponics equipment and educational materials for over 50 years. They are a retail store for the "Hydroponist"—both beginners and seasoned veterans—but they present Los Angeles with many ways to enjoy the fruits of interest in plant growing.

Visit their website at <http://www.foothillhydroponics.com> for additional information and ideas for your fair projects.

Hydroponics Projects for Fair

The following category description is itemized for Hydroponics projects at the Fair; this information will be also in the 2016 Exhibitor Handbook.

Students in grades 1 through 12 may enter individual Hydroponics projects into the Fair.

- Each individual project must have a journal and data reflecting the progress of the experiment. The journal must include quantitative and qualitative observations.
- There must be a control and only one variable such as: different nutrient solutions, different types of lighting, different amounts of lighting, different types of growing media, different types of growing systems, or dream up your own variable to test.
- Once you have chosen a variable, all other aspects of the plants' care must be the same for each plant.
- You may start from seed or a plant but you must record the characteristics of all plants at the beginning of the experiment in order to show valid results.
- There must be more than two plants in your experiment.
- All entries must have a backboard or tri-fold with the title of the experiment in question form, hypothesis, materials used, procedure, results and conclusion.
- At least a sampling of the plants in the experiment must be displayed.

* For 1st and 2nd grades: observe the growth of the hydroponic plants and the regular soil plants. Instead of a written journal you may draw your observations of the plants weekly.

Stop by the 48th DAA office for additional information on Hydroponics or email to daa48th@aol.com.

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Thank you CA Ag in the Classroom for Teacher Scholarships

48th DAA thanks CA Foundation for Ag in the Classroom (AITC) for awarding scholarships to four teachers from the Schools' Agriculture and Nutrition Program to attend their annual conference. The teachers had a great time networking and gathering resources and inspiration. Check out the photos by exploring the AITC Facebook page at <https://www.facebook.com/learnaboutag>.

Presidential Turkey Activity Guide

Inserted in this issue is the Presidential Turkey Activity Guide courtesy of **CA Foundation for Ag in the Classroom** and **Foster Farms**.

The guide introduces students to the history of our nation's Presidential Turkey tradition and engages them with activities about the popular poultry. It is aligned to California Education Standards which include Common Core English Language Arts, Common Core Mathematics, and Next Generation Science Standards.

School Garden Mission Statement

The following is a School Garden Mission Statement created by Brian Dickie, Science Teacher and Facilitator at El Monte High School (Robin Torres, Principal). Mr. Dickie is new to the Schools' Agriculture and Nutrition Program, and he's permitted the 48th DAA to share his School Garden Mission Statement with the teachers in the program.

The 48th DAA thanks Mr. Dickie and encourages teachers to include school gardens in their lessons. The Schools' Agriculture and Nutrition Fair welcomes classroom entries for Pre-K to 12 in the School Garden category.

Purpose: To promote healthy lifestyle choices by providing opportunities for young people to organically grow food and produce at El Monte High School.

Rationale: By fostering organic agriculture, students will be encouraged to make healthier food choices, have opportunity to enjoy the fruits of their labor, and be inspired to start their own home garden thereby increasing the health of the family.

Mission Objectives:

1. To educate young people in how to grow their own healthy, savory, organic food in a sustainable manner;
2. To integrate hands-on gardening into school curricula to reinforce classroom content in Biology, Ecology, and Environmental Studies;
3. To partner with local growers, community farms, as well as El Monte Union High School District Nutritional Services;
4. To promote gardening in the community of El Monte and environs
5. To train young people to be independent growers who utilize available space at their residence and increase health in the family.

Water conservation more important than ever!

Despite the reports of the pending El Niño, the drought won't disappear. The El Niño weather phenomenon is likely to drench California this winter and it could trigger floods, but it still won't end the state's severe drought. The rain will fill the reservoirs, but most of our water supply (80%) comes from ground water that needs snow to be replenished. Since El Niño is a very warm system it remains to be seen how much of it will actually manifest itself as snowfall, which was at a record low last year. One season of above-average rain and snow cannot remove four years of drought. We all need to remain diligent in our water conservation efforts despite the rainy weather ahead.

Californians have already cut water usage by 27 percent! In order to reach California's goal of 1.2 million acre-feet of water saved by February 2016, the State Water Board advises residents to continue their great efforts of water conservation during the fall and winter months.

For more information regarding water conservation programs and rebates, please contact your local water agency or visit www.socialwatersmart.com.

Join SCAN!

The Southern California Agriculture and Nutrition Foundation (SCAN) is a 501(c)3 public charity that has provided support to the State of California's 48th District Agricultural Association for over 30 years. Contact the 48th DAA if you are interested in serving on the SCAN board of directors.

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Save the Dates!

December 12, 2015

Teachers, FREE Workshop

Backyard Composting and Worm Composting Workshop presented by County of Los Angeles, Smart Gardening, Curtis B. Thomsen.

Time: 10:00 a.m.–12:00 p.m.

Location: The Farm at Fairplex, 1101 W. McKinley Avenue, Pomona, CA 91768

(Enter at Gate 12 on White Avenue)

Hosted by The Farm at Fairplex and 48th District Agricultural Association.

RSVP to the 48th DAA at **909-274-2433** or **daa48th@aol.com**

May 7, 2016 – Mt. SAC Farm Day

9 am–3 pm! Come visit the farm on campus—games, food, demonstrations and enjoy a hayride. The 48th DAA features Dairy Council of CA/Mobile Dairy Classroom.

May 17 to 21, 2016 – Schools' Agriculture and Nutrition Fair Theme: Let It Grow. **www.agfair.org**



Did You Know?

The following are **Common Core Lesson Plans** available at the 48th DAA
(Materials courtesy of CA Foundation for Agriculture in the Classroom)

Fruits & Vegetables for Health

Grades 4–6
Science, Math, Reading/

Language, History/Social Science, Health/
Nutrition

“Steer” Toward STEM, Careers in Animal Agriculture

Grades 3–5
Science, Math, Reading/Language, Health/
Nutrition

Chemistry, Fertilizer and the Environment

Grades 8–12
Science, Math, Reading/Language

California Educator's Guide to Fun with the Plant Nutrient Team

Grades K–3
Next Generation Science, Science, Math,
English/Language, History/Social Science, Health/
Nutrition

Edible Plant Parts

Grades 2–3
Next Generation Science, Science, Math,
English/Language, History/Social Science, Health/
Nutrition, Visual/Performing Arts

From “STEM” to Plate: Careers in Food Science

Grades 6–8
Next Generation Science, Science, Math,
English/Language, Health/Nutrition, Visual/
Performing Arts

Too Much? Too Little?

Grades 5–8
Next Generation Science, Science, Math,
English/Language, History/Social Science, Health/
Nutrition, Visual/Performing Arts

What do Plants Need to Grow?

Grades 2–4
Science, Math, Reading/Language, Health/
Nutrition

Stem Connections, Energy and Agriculture: Careers in Sustainable Energy

Grade: 9–12
Common Core State Standards, Next
Generation Science Standards

California Walnuts: A Walnut Orchard Through the Seasons

Grades: 2–3
English Language Arts

Come into the office or call us at **909-274-2433**. Lessons are free of charge; equipment, books, DVD's and videos can be borrowed.

The 48th also has Cotton's Journey Kits; Bread making kits; Trout in the Classroom supplies, and incubators to hatch chicks. Visit **www.agfair.org** for additional available lessons and materials.

The materials furnished by the 48th DAA are **free of charge** to teachers, in exchange for participation by teacher/students in the annual Schools' Agriculture and Nutrition Fair. Submit a minimum of one entry for each of the materials (projects) checked out from the 48th DAA office.

The 48th DAA is open year round and works with teachers from Pre K to 12th Grade. Teachers and parents – we look forward to meeting you!

The office is open Monday to Thursday; 8:30 a.m. to 5 p.m. (closed 12 to 1 p.m. for lunch). Please call ahead at **909-274-2433**.

