



Schools' Agriculture and Nutrition Program

The [Schools' Agriculture and Nutrition Program](#) is presented by the 48th District Agricultural Association which serves as a resource center for teachers in the greater Los Angeles, and surrounding, school districts. Materials are provided to assist teachers in instructing students about where food and fiber come from as well as the benefits of healthy eating habits.

Students learn how agriculture affects their daily lives and how important it is to the economy of California. The 48th DAA also schedules workshops for teachers throughout the year. All materials and workshops are free to teachers.

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.

48th District Agricultural Association Schools' Agriculture and Nutrition Program and Fair

P.O. Box 707, Walnut, CA 91788-0707

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Schools' Agriculture and Nutrition Program

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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.

The mission of SCAN is to educate elementary and secondary school teachers and their students about agriculture and nutrition.

Taxpayer ID #95-3723190

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<http://www.scanfoundation-48thdaa.org>

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Hatching Chicks in the Classroom

Teachers have found a tangible hands-on way for their students to learn about chickens starting from the egg. The 48th DAA provides incubators for hatching chicks in the classroom; materials include instructions for properly incubating and hatching the chicks and using the incubator. Videos and books are also available to supplement the activity so students can follow along with the process.

All supplies, materials and fertile eggs are provided by the 48th DAA at no cost to teachers.

Contact the 48th DAA office (see below) if you are interested in Hatching Chicks in the Classroom.



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Trout in the Classroom

When salmon and trout go to school, students have a unique opportunity to witness their birth and care for them during their early life stages. In the process, students learn important concepts, while developing caring attitudes about the fish and their habitats.

The salmon and trout incubation unit encompasses science, math, social studies and language arts. It is a sound stepping stone to many topics and can easily be integrated into existing curricula at any grade level. (Suggested grade levels 4–12)

The goal of this program is to help young people become good stewards of all our aquatic resources, including salmon and trout. Salmon and trout are especially valued wildlife in California, but sadly, most wild populations are dwindling. Students raise trout to learn about habitat requirements and how to keep habitats healthy.

Teachers interested in participating in the Trout in the Classroom (TIC) program must attend a one-time **mandatory workshop** which is presented by an official Fly Fishers Club early in the fall.

The 48th DAA provides chillers, tanks and supplies, free of charge, for teachers to use when they are ready to implement the program.

Contact the 48th DAA office (see below) if you are interested in Trout in the Classroom.



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Teach Science with a Loaf of Bread!

Life Science, Earth Science, Physical Science, Health Science plus Math

- Master Measurements
- Create and Name Geometric Shapes
- Discover Food Origins – Grass, Rocks, Fungus, Vegetables, Insects
- Observe States of matter – Dry Solids, Liquids, Gases
- Note Effect of Time and Temperature on Chemical Reactions
- Identify Life Essentials
- Determine Logical Sequences

Reserve your Free Bread Making *Kit!

Each kit contains:

- Aprons, bowls, pans, measuring tools
- Take-home tote bag with recipe
- Stir-Stik ruler
- Fleischmann's yeast, salt and brown sugar

Step-by-step directions – practically everything you need is in the kit. Detailed script, cue cards and media support at www.breadmake.com. Teachers supply flour, oil and warm water in your classroom.

*Honey Bear Breadmake Box



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School Gardens Square Foot Gardening

www.SquareFtGardens4U.com

Saves time, work, money and water!

Square Foot Gardening is a simple, unique and versatile system that adapts to all levels of experience, physical ability, and geographical location (great for school gardens). Grow all you want and need in only 20% of the space of a conventional row garden. There is no tilling so anyone can do it.

Square Foot Garden consultant, Jo Ann Carey, fully explains the process in her workshops so you can create your own square foot garden with lessons on setup, planting, watering, growing vertically, pest control and harvesting.

Let us know if you are interested in a Square Foot Garden workshop. Call the 48th office (see below).



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The Missions of Alta California

The Missions of Alta California – the mere words evoke a sense of mystery, romance, and sometimes controversy. At the dawn of this new century, more than 230 years after California's first mission was founded at San Diego, the intrigue continues.

- Why did these missions come to be?
- Why in California?
- What exactly were they?
- What impact did they make culturally and agriculturally?
- And what happened between then and now?

California was home to fewer than 300,000 inhabitants-native peoples: Yuman, Kumeyaay, Shoshonean, Chumash, Yokut, Ohlone, and Miwok to name but a few of the groups. Those indigenous people lived harmoniously with the land, respecting its resources and using only what was needed.

During the [Schools' Agriculture Nutrition Fair](#), we invite your students to enter their California mission projects; all mission entries will be placed on display.



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Schools' Agriculture and Nutrition Fair

Fairplex Pomona



The Schools' Agriculture and Nutrition Fair is an educational fair featuring thousands of agricultural-themed projects from over 100 schools in the greater Los Angeles basin and surrounding communities.



The event attracts school field trips, families, educators, and community members to celebrate the achievements of local students (Pre-K through high school) and teachers, and to educate the attendees about the importance of agriculture to California.



Of course, the height of the Fair experience is seeing the students' excitement as they view their projects on display.



Events include: All About Animals Petting Zoo, Dairy Council of CA/Mobile Dairy Classroom, Agricultural Commissioner's Ag Detector Dogs and educational display, Ag Day LA, Discovering Science, Spelling Bee. Our clown meets every bus and answers your immediate questions.

To Enter the Fair: Exhibitor Handbooks will be available in October. Contact the 48th DAA office for information and your copy of the handbook; you can also download the handbook at www.agfair.org.

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FREE Workshops



Are you interested in attending workshops about

- Hatching baby chicks in your classroom.
- Starting a Square Foot Garden at your school.
- How to enter the Schools' Agriculture and Nutrition Fair.
- What is expected to enter a Classroom Booth into the Fair.



OR

Perhaps you have a topic you would like us to schedule if there is enough interest.



Call or email the 48th office (see below) and share your thoughts.

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Ag Day LA

Register on line at www.agdayla.com



AG DAY LA is a valuable free educational experience for third and fourth grade students.

Students will learn how agriculture (water, plants, bees, fiber, food and dairy) is involved in our everyday lives. From the food we eat to the clothes we wear, agriculture affects us all.



Ag Day LA provides a fun and exciting way for teachers to address State Standards, as well as to promote agricultural literacy. The event will take place in conjunction with the 48th District Agricultural Association's **Schools' Agriculture and Nutrition Fair**.



Visit www.agdayla.com for event dates and pre-registration.

Also, The Farm at Fairplex www.fairplex.com

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Common Core Lessons

(Courtesy of CA Foundation for Ag in the Classroom)

- **Fruits & Vegetables for Health / 4-6:** Production, distribution, and nutritional value of California fresh produce.
- **“Steer” Toward STEM, Careers in Animal Agriculture / 3-5:** Promotes the development of STEM abilities and critical thinking skills, while fostering an appreciation for the people involved in livestock production.
- **What Do Plants Need to Grow / 2-4:** Students learn the basic plant parts as well as the essential resources that plants need to grow.
- **Chemistry, Fertilizer and the Environment / 8-12:** Agriculture is used to introduce chemistry concepts in a meaningful way. Students will learn about plant nutrients, chemical compounds, solutions and dilutions, and water quality as they take on the role of a crop production advisor.
- **CA Educator’s Guide to Fun With the Plant Nutrient Team / K-3:** An activity book and teacher guide describes the 17 nutrients needed by plants for healthy growth and production.
- **Edible Plants Parts / 2-3:** This unit allows students and teachers to examine the six basic plant parts—roots, stems, leaves, flowers, fruits, and seeds—in a unique way.
- **From “STEM” to Plate: Careers in Food Science / 6-8:** Promotes the development of STEM abilities and critical thinking skills, while fostering an appreciation for the people involved in food production.
- **Too Much? Too Little? / 5-8:** The connection between soil nutrients and the food we eat.
- **Stem Connections, Energy and Agriculture Careers in Sustainable Energy / 9-12:** 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.
- **California Walnuts: A Walnut Orchard Through the Seasons / 2-3:** Students will gain an understanding of the changes that take place in a walnut orchard through the different seasons of the year.
- **Alien Invader Detectives / 3-5:** Students will learn to identify some important invasive species, how to spot and stop the spread of invasive species, and understand why they are detrimental to a native ecosystem.
- **Bon à la Beef / 3-12:** CFAITC partnered with California Beef Council to create four professional video clips featuring elementary through high school students preparing recipes to educate students, teachers, and the public about beef, its nutritional value, and its proper handling and preparation.
- **California Almonds: An Almond Story / 3-5:** This five-lesson unit for grades 3-5 teaches about agriculture by focusing on all aspects of the almond industry.
- **California Walnuts: The Importance of Grafting / 4-5:** The purpose of this unit is for students to understand the science and economic importance of grafting walnut trees.
- **Food Safety: From Farm to Fork / 5-7:** This unit provides fifth through seventh graders a better understanding of food safety through real-life examples and enjoyable activities.
- **From Genes to Jeans II / 6-12:** The lessons may be used independently or as a self-contained unit which covers in depth the concepts of genetics including an introduction to human inheritance, genetic breeding, Punnett squares, the importance of genetic diversity, biotechnology, gene marker selection, and the use of biotechnology for sustainable agriculture.

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Lessons Aligned to CA Content Standards

(Courtesy of CA Foundation for Ag in the Classroom)

- **That Was Then, This Is Now / 3-6:** History of agriculture
- **Agriculture Awareness through Poetry / 9-10:** Students will see how poets have used farming as an interesting and important topic.
- **Edible Numbers / 3-4:** Helps students better understand where food comes from.
- **An Ag Interview / 9-10:** Practice oral and written communication skills.
- **We Garden / 1-3:** Lesson plans help integrate school gardens into every-day learning.
- **Ag-Bites – Comparing Apples and...Earth? / 3-5:** Bite-sized, hands-on activities to bring agriculture to life in your classroom.
- **Cotton's Journey / 1-8:** About cotton from seed to the development of everyday items we use
- **Science Fair and Lesson Ideas / 3-12:** Science fair ideas in the form of questions that relate to agriculture.
- **Chicken-From the Egg to Your Table / 4-6:** Students learn about the life and uses of chickens including hatching chickens in the classroom.
- **Gobble It Up / 4-6:** Fun activities learning about turkeys.
- **A Sour Subject / 5-6:** Students reinforce their skills of reading, observation, mathematical computation.
- **Things We Can Learn From a Cow and a Worm /Beef Council / 5-6:** Colorful education poster.
- **Simple & Complex Machines in Agriculture / 2-5:** Farm machinery and the use of machines in agricultural practices.
- **Food Safety: From Farm to Fork / 5-7:** Understanding of food safety through real-life examples and enjoyable activities.
- **Fueled For Flight / 5-6:** Travel as a thematic approach to teaching students how the body uses energy.
- **Fit For a King / 3-5:** Role of nutrition and regular physical activity.
- **A Garden Plot: The Tale of Peter Rabbit / K-1:** Encourages students to think about where their food comes from, distinguish between fact and fiction, and observe roots and soil, and write about personal experiences they have while caring for the personal gardens they create.
- **Red Imported Fire Ants: Facts About These Interesting Insects / 2-3:** Teaches children about the red imported fire ant.
- **From Genes to Jeans / 7-9:** Students are introduced to the genetic research and technologies associated with agriculture.
- **Where'd You Get Those Genes? / 5-7:** Students examine the basic principles of heredity, as well as learn some specifics about genetics and how they are incorporated into today's agricultural industry.
- **What's Bugging You? / 4-6:** Learning about a popular issue-pest management.
- **Milk Matters! Discovering Dairy / 4-6:** Students discover the many different aspects of life on a dairy farm.
- **Tomato Trivia / K-3:** Using tomatoes as a theme, students practice their math and science skills of estimating, measuring, counting, graphing and sequencing.

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48th District Agricultural Association

Street Address:

Building F10 Farm Road • Mt. San Antonio College Campus
1100 North Grand Avenue • Walnut, CA 91789



Directions to 48th DAA Office:

From the 57 Freeway

Exit at Temple, go West (pass Cal Poly Pomona). Keep going west on Temple to Bonita, turn right on Bonita to the first stop light. At the light, turn right. Continue across the top of parking lot F. Pass buildings on your left, next left (through the fence) will be Farm road, turn left onto Farm Road. The 48th Office is the second building on the left. you are welcome to park in our lot.

From the 10 Freeway

Exit at Grand, go South
Turn left at Temple. Turn left at Bonita. Go to the first stop light. At the light, turn right. Continue across the top of parking lot F. Pass buildings on your left, next left (through the fence) will be Farm road, turn left onto Farm Road. The 48th Office is the second building on the left. you are welcome to park in our lot.

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