

# Common Core in the Garden

Tuesday, February 18, 2014



**Presented By**

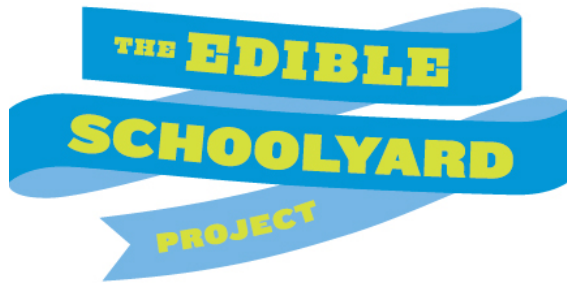
*Whitney Cohen,  
Education Director at Life Lab*

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# GROWING SCHOOL GARDENS

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**Growing School Gardens**

Co-hosted by edWeb.net, the Edible Schoolyard Project, the National Farm to School Network, and Life Lab

**Welcome to the Growing School Gardens Community!**

School gardens are a growing initiative to help children understand where their food comes from and how their food choices impact their bodies, the environment, and their communities at large.

A school garden can have an impact on the entire life and educational program of school and the surrounding community. Gardening activities can be incorporated into nearly every curriculum subject to enhance the appreciation of the natural world, and to provide hands-on learning activities for students.

This online learning community is a place for educators, gardeners, parents, and community volunteers to come together to share information and resources on how to start and maintain a school garden, and integrate it into the curriculum, the life of a school, and the local community.

The community hosts free monthly webinars and live chats with leaders in the field that are highly engaging and interactive. Online discussions provide an easy way to continue the conversation and share ideas and experiences with peers across the country, and around the world.

As a member of the community, you'll receive...

- Invitations to free webinars and live chats.
- A CE certificate for attending/viewing our webinars.
- Access to all of the recorded webinars, presentations, resources, and online discussions.

One of the pioneers of the school gardening movement is Dorothy Mullen, who is an organic gardener who lives in Princeton NJ. After the tragedy of 9/11, she wanted to do something positive for the community, so she started a school garden for Riverside

**Members** | **Administrators**

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- CE quizzes for archived webinars



## **Webinar Tips**

- For better audio/video, close other applications (like Skype) that use bandwidth.
- Maximize your screen for a larger view by using the link in the upper right corner.
- You will be emailed a CE certificate within 24 hours for attending today.
- You will also receive information to access the recording of the webinar and the slides.
- Tweeting? Use the hashtag #edwebchat





# Common Core in the Garden

Whitney Cohen  
Education Director, Life Lab  
Lecturer, UC Santa Cruz

# Welcome!

- Introductions
- A Story
- How can we maximize Math and Language Arts education in the garden ... while also holding on fiercely to the magic?
- The Growing Classroom Standards Database



# Who's With Us?



# What Is Life Lab?

A California-based non-profit organization and national leader in farm- and garden-based education since 1979

We have field trips, summer camps, and a youth internship program in our Garden Classroom in Santa Cruz, CA.



# Life Lab teaches people to care for ....

themselves ...



each other ...

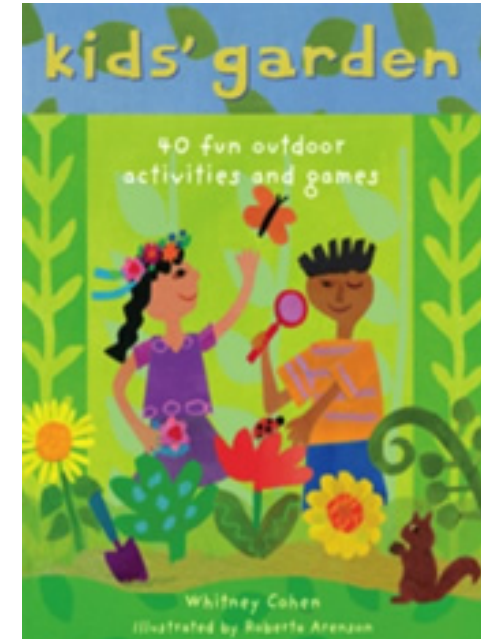
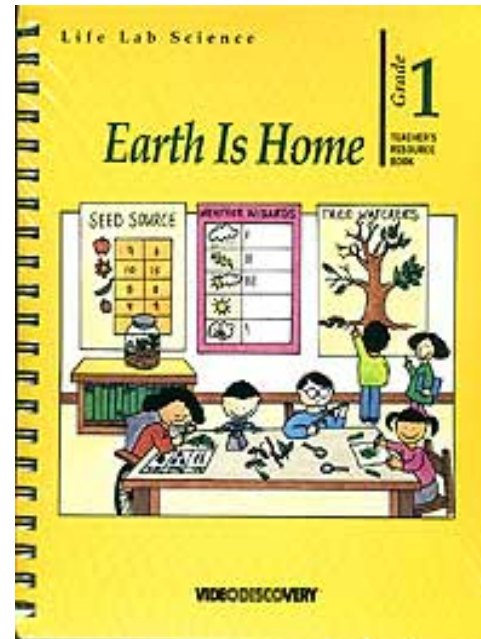
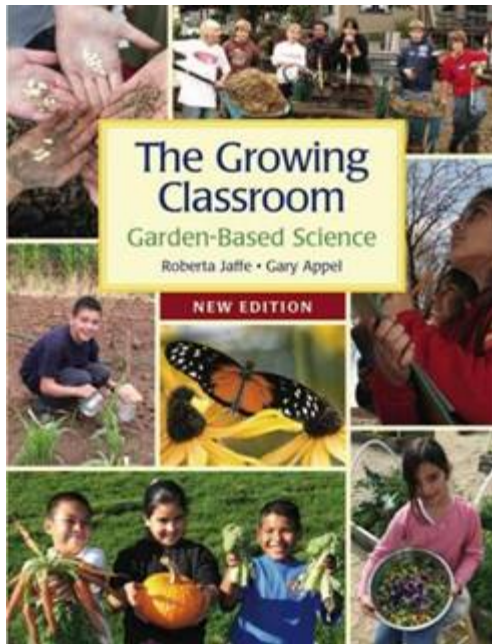


and the world ...



... through farm- and garden-based programs.



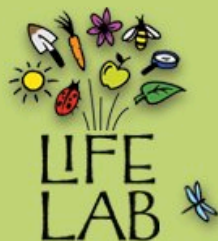


## Books and Workshops



We have trained tens of thousands of educators across the country.





Bring learning to life in the garden!



Life Lab teaches people to care for themselves, each other, and the world through farm and garden-based programs.



ABOUT  
LIFE LAB



FOR  
EDUCATORS



FOR CHILDREN,  
YOUTH & FAMILIES



OUR GARDEN  
CLASSROOM



LIFE LAB  
STORE



## upcoming events

september 10 webinar:  
inquiry in the garden  
september 21 ssoow  
workshop

september 22 foodwhat  
benefit dinner

october 3-4 growing  
classroom workshop

october 10 pigiel  
workshop

october 11 school garden  
tour

fall sowing seeds of  
wonder field trips

october 24 creating and  
sustaining your school  
garden

november 15 growing  
healthy teens workshop

october 3 and november  
20 life lab community  
tours

Since 1979 Life Lab Science Program has supported science and garden-based education through publications, professional development, and innovative programs.

## Welcome to Life Lab

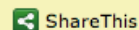
August 21st, 2013

Life Lab teaches people to care for themselves, each other, and the world through farm and garden-based programs.

Life Lab is a national leader in farm- and garden-based education. At the Life Lab Garden Classroom in Santa Cruz, California, we promote experiential learning for all ages through children's camps, field trips, youth and internship

programs, and teacher workshops.

Drawing on over thirty years of working with students we have also created curricula and workshops for educators interested in bringing learning to life in gardens nationwide.... [\[Read More →\]](#)



Posted in Life Lab Programs | 2 Comments

## Branching Out for Food Justice - FoodWhat Benefit Dinner

August 16th, 2013

**Please Join Us! Learn more and register at [www.foodwhat.org](http://www.foodwhat.org)**

The 4th Annual FoodWhat Benefit Dinner "Branching Out for Food Justice"



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# What Is Common Core?



**COMMON CORE**  
STATE STANDARDS INITIATIVE  
PREPARING AMERICA'S STUDENTS FOR COLLEGE & CAREER

Home The Standards In the States



CCSSO  GOVERNORS 

## Implementing the Common Core State Standards

[Discover More »](#)

### Mission Statement

The Common Core State Standards provide a consistent, clear understanding of what students are expected to learn, so teachers and parents know what they need to do to help them. The standards are designed to be robust and relevant to the real world, reflecting the knowledge and skills that our young people need for success in college and careers. With American students fully prepared for the future, our communities will be best positioned to compete successfully in the global economy.

### Common Standards

Building on the excellent foundation of standards states have laid, the Common Core State Standards are the first step in providing our young people with a high-quality education. It should be clear to every student, parent, and teacher what the standards of success are in every school.

[Read More »](#)

### Discover the Common Standards

[Mathematics Standards »](#)

[English Language Arts Standards »](#)



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(Thanks Google for the image)



## Team Building Retreat at Pigeon Point Light House



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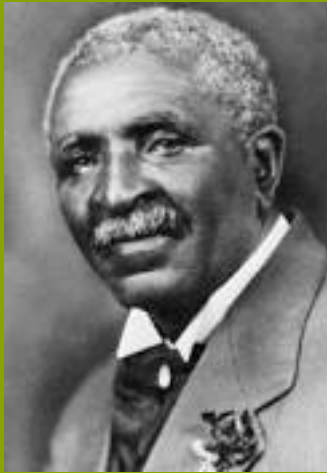




# It's Time to Abandon the False Dichotomy Between Fun and Learning



# George Washington Carver, circa 1900

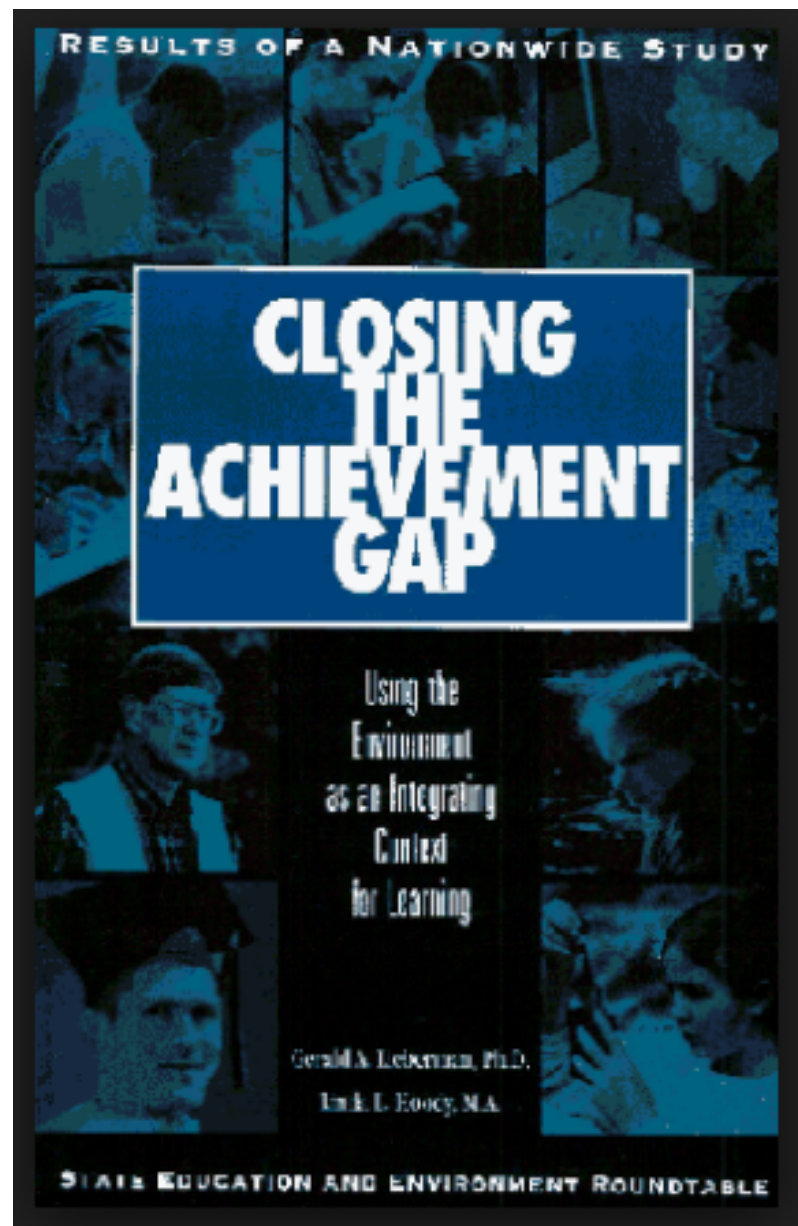


“A real bug found eating on the child’s cabbage plant in his little garden will be taken up with a vengeance in his composition class. He would much prefer to spell the real, living radish in the garden than the lifeless radish in the book. He would much prefer to figure on the profit of the onions sold from his garden than those sold by some John Jones of Philadelphia.”





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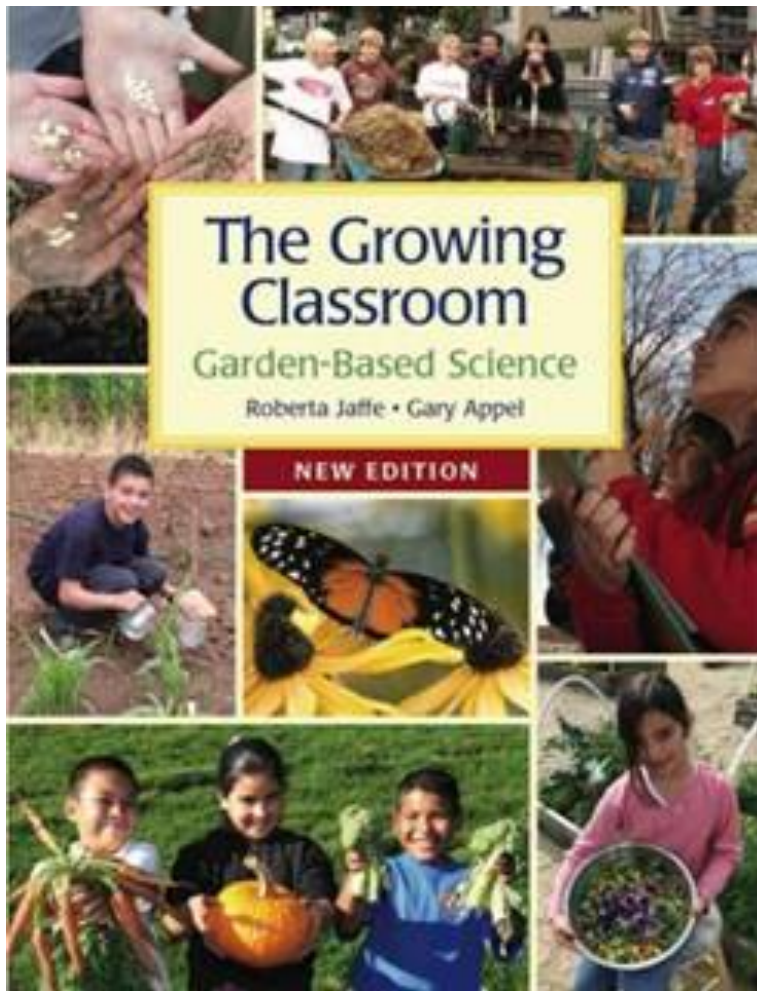




Igniting a Passion for Learning







# Six of One, Half Dozen of the Other

## DESCRIPTION

Groups of students use multiple senses to find and classify contrasting objects in the natural environment.

## OBJECTIVE

To use the senses to identify and classify objects in the garden laboratory.

## MATERIALS

☼ One egg carton per group of three

## PREPARATION

On the bottom of each egg carton write two words. One should be a likely quality of a garden object, such as "wet." The other should be its opposite ("dry"). Use words that will encourage students to use their senses, such as dark/light, rough/smooth, dull/colorful, scented/unscented, scratchy/soft, etc. Label each carton with different opposites. To discourage unsupervised tasting, avoid opposites that refer to taste.



## CLASS DISCUSSION

What senses can we use to explore opposites in the garden? In this activity you will be searching for objects that have a specific quality, and those that have the opposite quality. What are some examples of opposites?

## ACTION

1. Divide the class into groups of three. Tell the class that each group will get a special collecting container in which to collect 12 items. They shouldn't let any other group see the secret information on the bottom of the carton.

## Let's Look at Some Examples ...







## The Growing Classroom Standards Database

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Welcome to the The Growing Classroom Standards Database! Educators can use this database to see how lessons from [The Growing Classroom](#) correlate to Next Generation Science Standards, and Common Core Math and English Language Arts Standards. You can search by lesson, grade level, key word, or standard.

Use the tabs above to access different sections of the database.

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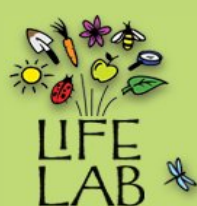
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**Search for a Standard**  
Search for a Science, Math, or English Language Arts Standard, and find lessons from [The Growing Classroom](#) that address your chosen standards.

**Glossary**  
Find definitions for codes used in the standards.

This guide was made to accompany  
[The Growing Classroom](#):  
Garden-Based Science and Nutrition Activity Guide.





Bring learning to life in the garden!



Life Lab teaches people to care for themselves, each other, and the world through farm and garden-based programs.

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LIFE LAB



FOR  
EDUCATORS



FOR CHILDREN,  
YOUTH & FAMILIES



OUR GARDEN  
CLASSROOM



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STORE



## upcoming events

- take the california school garden survey
- february 5 day camp registration opens
- february 18 common core in the garden webinar
- march 4 regional support models for school gardens webinar
- march 15 science and math project stem conference
- march 20-21 growing classroom workshop
- april 24 new leaf market community day for life lab
- april 29 piglet workshop
- may 23 growing healthy teens workshop
- july 24-25 growing classroom workshop
- august 23 ssow workshop

Since 1979 Life Lab Science Program has supported science and garden-based education through publications, professional development, and innovative programs.

life lab's

## Common Core in the Garden

<< Saving Water in the Garden | 2014 California School Garden Survey >>

**\*\*Join our Common Core in the Garden Webinar February 18th, 2014, 1pm PST\*\***

Here at Life Lab, we have been hard at work connecting [The Growing Classroom](#) with the new [Common Core Math](#) and [Language Arts](#) standards and [Next Generation Science Standards \(NGSS\)](#) being rolled out in schools across the country.

[Visit The Growing Classroom Standards Database \(sign in as a guest\)](#)

### Common Core and Next Generation Science Standar...



See examples of how we bring content standards to life at the Life Lab Garden Classroom.

[Click to Access The Growing Classroom Standards Database](#) then sign in as a guest.

We are thrilled by the guiding principles behind the new science standards, which integrate content, practices, and cross-cutting concepts to ensure that science education is meaningful, engaging, and effective. By highlighting the various ways each lesson in [The Growing Classroom](#) addresses these standards and provides opportunities for students to

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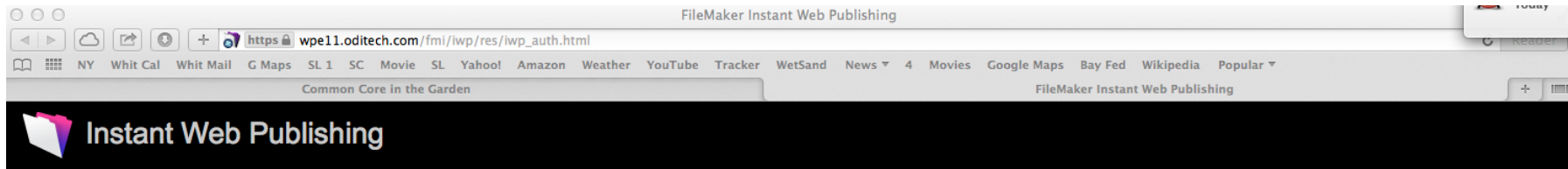
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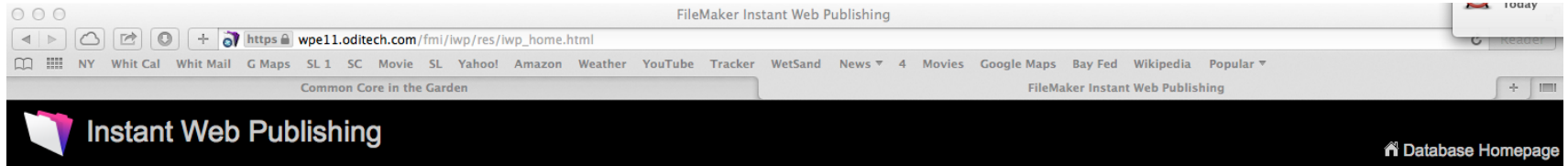
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# The Growing Classroom Standards Database

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This guide was made to accompany  
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Garden-Based Science and Nutrition Activity Guide.



# The Growing Classroom Standards Database

## Lesson Search

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1. Enter search conditions into any of the green fields below.
2. Click: "Find Lessons."
3. Search results will display below.
4. Click "View standards for this lesson" to see which standards apply for the specific lesson.
5. Use the arrows at the bottom to scroll through pages of results.

[New Search](#)
[Find Lessons](#)

Enter your find criteria in any of the green fields below. Then click the Find Lessons

Lesson Title	Product	Page	Lesson Description (Use keywords)	Lesson Conditions
Six of One	The Growing Classroom			<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor <input type="checkbox"/> Activity <input type="checkbox"/> Project <input type="checkbox"/> Fall <input type="checkbox"/> Winter <input type="checkbox"/> Spring

[view standards for this lesson](#)


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## The Growing Classroom Standards Database

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[New Search](#)
[Find Lessons](#)

1 matching lessons were found. Only first 25 records are shown.

Lesson Title	Product	Page	Lesson Description (Use keywords)	Lesson Conditions
Six of One, Half Dozen of the Other	The Growing Classroom	66	Groups of students use multiple senses to find and classify contrasting objects in the natural environment.	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor <input checked="" type="checkbox"/> Activity <input type="checkbox"/> Project <input checked="" type="checkbox"/> Fall <input type="checkbox"/> Winter <input checked="" type="checkbox"/> Spring

[view standards for this lesson](#)


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The Growing Classroom Standards Database

https://wpe11.oditech.com/fmi/lwp/cgi?~db=The%20Growing%20Classroom%20Standards%20Database&~loadframes

Common Core in the Garden

The Growing Classroom Standards Database

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### Six of One, Half Dozen of the Other

Lesson Name: Six of One, Half Dozen of the Other

Product: The Growing Classroom

Lesson Description: Groups of students use multiple senses to find and classify contrasting objects in the natural environment.

Page: 66

Lesson Conditions: ☐ Indoor ☒ Outdoor ☒ Activity ☐ Project

☒ Fall ☐ Winter ☒ Spring

**Navigation**

Flip through Lesson Search Results

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### Relevant Standards

Type	Code	Standard Description	
Science	2.PS1.1	Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties	<a href="#">View Standard Detail</a>
Science	5.PS1.3	Make observations and measurements to identify materials based on their properties	<a href="#">View Standard Detail</a>
ELA	1.L.5	With guidance and support from adults, demonstrate understanding of word relationships and nuances in word meanings.	<a href="#">View Standard Detail</a>
ELA	1.L.5.a	Sort words into categories (e.g., colors, clothing) to gain a sense of the concepts the categories represent.	<a href="#">View Standard Detail</a>
ELA	1.L.5.c	Identify real-life connections between words and their use (e.g., note places at home that are cozy).	<a href="#">View Standard Detail</a>
ELA	1.SL.1	Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.	<a href="#">View Standard Detail</a>
ELA	2.L.5	Demonstrate understanding of word relationships and nuances in word meanings.	<a href="#">View Standard Detail</a>
ELA	2.L.5.a	Identify real-life connections between words and their use (e.g., describe foods that are spicy or juicy).	<a href="#">View Standard Detail</a>
ELA	2.L.5.b	Distinguish shades of meaning among closely related verbs (e.g., toss, throw, hurl) and closely related adjectives (e.g., thin, slender, skinny, scrawny).	<a href="#">View Standard Detail</a>
ELA	2.L.5.d	Distinguish shades of meaning among verbs differing in manner (e.g., look, peek, glance, stare, glare, scowl) and adjectives differing in intensity (e.g., large, gigantic) by defining or choosing them or by acting out the meanings.	<a href="#">View Standard Detail</a>
ELA	4.SL.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher- led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.	<a href="#">View Standard Detail</a>
ELA	4.SL.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher- led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.	<a href="#">View Standard Detail</a>
ELA	5.SL.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher- led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.	<a href="#">View Standard Detail</a>
ELA	K.L.5.a	Sort common objects into categories (e.g., shapes, foods) to gain a sense of the concepts the categories represent.	<a href="#">View Standard Detail</a>
ELA	K.L.5.b	Demonstrate understanding of frequently occurring verbs and adjectives by relating them to their opposites (antonyms).	<a href="#">View Standard Detail</a>



And that was without any extensions!



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# Quick Poll





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### INSTRUCTIONS

1. Enter search criteria in any of the green fields below.
2. Click: "**Find Standards.**"
3. Search results will display below.
4. Click on "View lessons for this standard" to see which lessons apply to that standard.
5. Use the arrow keys below to scroll through pages of results.

[New Search](#)[Find Standards](#)

Enter your search criteria in any of the green fields below. Then click the Find Standards button.

Type	Code	Standard Grade	Standard Description (Use keywords)	
<input type="radio"/> Science <input type="radio"/> ELA <input checked="" type="radio"/> Math		<input type="radio"/> Kindergarten <input type="radio"/> Fourth <input type="radio"/> First <input type="radio"/> Fifth <input type="radio"/> Second <input checked="" type="radio"/> Third	Graph	<a href="#">view lessons for this standard</a>



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5. Use the arrow keys below to scroll through pages of results.

[New Search](#)[Find Standards](#)

3 matching standards were found. Only first 25 results are shown.

Type	Code	Standard Grade	Standard Description (Use keywords)	
<input type="radio"/> Science <input type="radio"/> ELA <input checked="" type="radio"/> Math	2.MD.10	<input type="radio"/> Kindergarten <input type="radio"/> Fourth <input type="radio"/> First <input type="radio"/> Fifth <input checked="" type="radio"/> Second <input type="radio"/> Third	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.	<a href="#">view lessons for this standard</a>
<input type="radio"/> Science <input type="radio"/> ELA <input checked="" type="radio"/> Math	3.MD.3	<input type="radio"/> Kindergarten <input type="radio"/> Fourth <input type="radio"/> First <input type="radio"/> Fifth <input type="radio"/> Second <input checked="" type="radio"/> Third	Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more: and "how many less" problems using information presented in scaled bar graphs. For example, draw a bar graph in which each square in the bar graph might represent 5 pets.	<a href="#">view lessons for this standard</a>





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## Standards Search Results

[Main Menu](#)[Search for a Lesson](#)[Search for a Standard](#)[Glossary](#)[Purchase The Growing Classroom](#)[Contact Us](#)[LOG OUT](#)Standard Code Standard Type 

Standard Description

Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.

### Navigation

Flip through  
Standards Search  
Results



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## Relevant Lessons

Lesson Title	Product	Page	Lesson Description	
Only the Nose Knows	The Growing Classroom	62	Students use their sense of smell to identify mystery fragrances.	<a href="#">view lesson detail</a>
The Nitty-Gritty	The Growing Classroom	85	Through a simple process, students separate soil into its three major components: sand, silt, and clay.	<a href="#">view lesson detail</a>
To Dig or Not to Dig: That is the Question	The Growing Classroom	91	Students conduct a garden experiment on the effects of compaction on plant growth by monitoring seedling growth in compacted and loosened soil.	<a href="#">view lesson detail</a>
What Good is Compost?	The Growing Classroom	98	Students grow two identical crops, one in a bed with compost and one in a bed without compost.	<a href="#">view lesson detail</a>
A Warm Place to Grow	The Growing Classroom	103	Students design and test ways to protect plants from frost damage. This activity should be used during cool weather.	<a href="#">view lesson detail</a>
Keeping Track	The Growing Classroom	291	A group of four students collects and charts daily weather information for one week and presents a weather report to the class using the weather station.	<a href="#">view lesson detail</a>

# Questions so Far ...




# Literature and Informational Reading





# Reading and Writing with a Purpose



## What's in Our Garden?

**Part 2**

Name \_\_\_\_\_ Date \_\_\_\_\_

Look at your animal carefully and draw it in the box below.  
Be as accurate as you can.

1. What do you think this animal eats?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. Why do you think so?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. How does this animal move? \_\_\_\_\_  
\_\_\_\_\_
4. Why do you think so? \_\_\_\_\_  
\_\_\_\_\_
5. What would you like to find out about this animal? \_\_\_\_\_  
\_\_\_\_\_
6. What kind of animal is this? Look in animal identification books to tell.  
\_\_\_\_\_

**150** Garden Animals

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# Speaking and Listening Standards









# This idea is, in fact, reflected in the Common Core Standards!

In Grade 2, students are asked to “identify real-life connections between words and their use (e.g. describe foods that are *spicy* or *juicy*.)”



# Speaking and Listening Standards K-12



- “Participate in collaborative conversations with diverse partners.”



How can we really get those conversations going?



# Participation Strategies

- In the garden, we're always asking ourselves: How can I turn a simple task into something that requires all hands on deck?





## For discussions, we ask ...

- How can I structure the discussion so that we hear from as many voices as possible, and not just from the “rapid responders?”



# Language Scaffolds

## OBSERVATIONS ORGANIZER Writing Frame

Think of properties you can see such as size, shape, color, lines, texture, pattern, behavior...	I observed...
Think of the other senses of smell, sound, touch, and perhaps taste!	I noticed...
Connect it with something that you already know.	It reminds me of...
Add more detail as needed.	This is so because...
Observe and record cause and effect.	When....., it...
Note any changes.	At first, .... But now....
Be curious and ask questions you could investigate.	<p>I am curious about...</p> <p>It surprised me that...</p> <p>OR</p> <p>I wonder what would happen if...</p>

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And Now for Math ...











Measurement in Plant Spacing







## Farmers' Measurements and Estimation



















[www.lifelab.org](http://www.lifelab.org)

# Spring & Summer 2014 Life Lab School Garden Workshops

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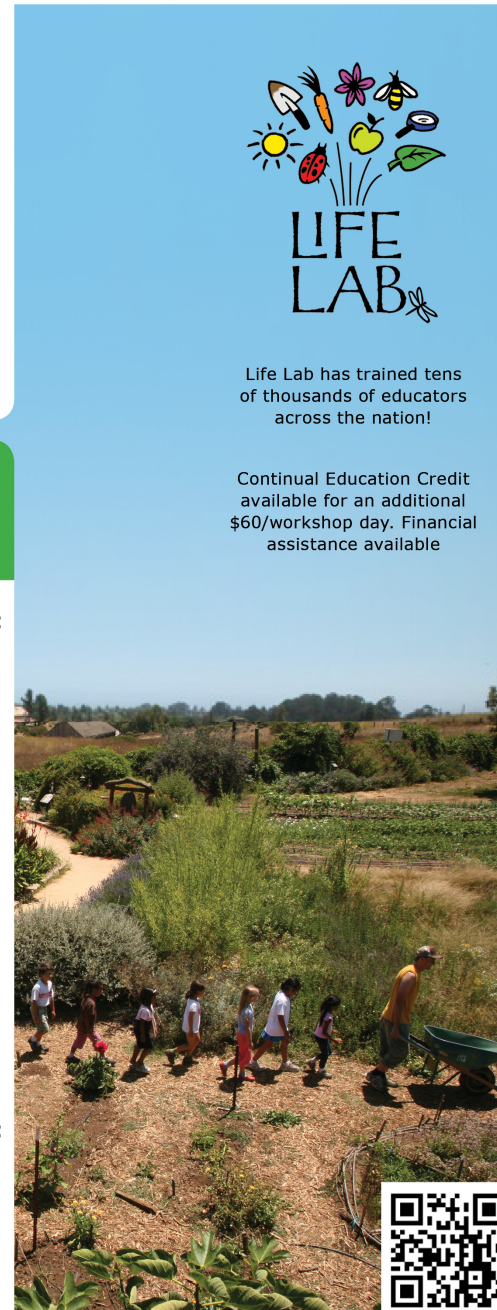
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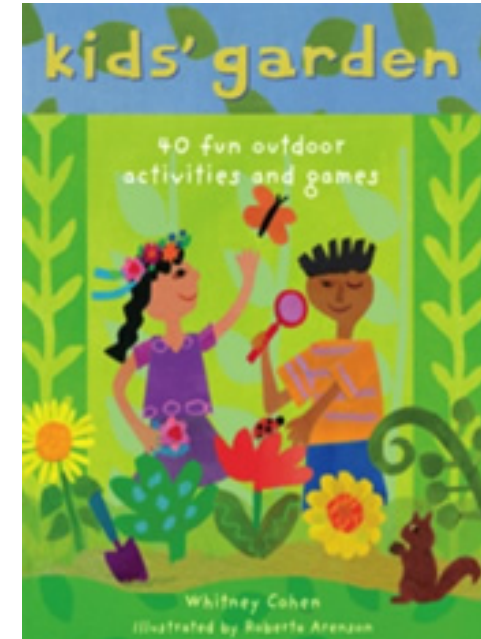
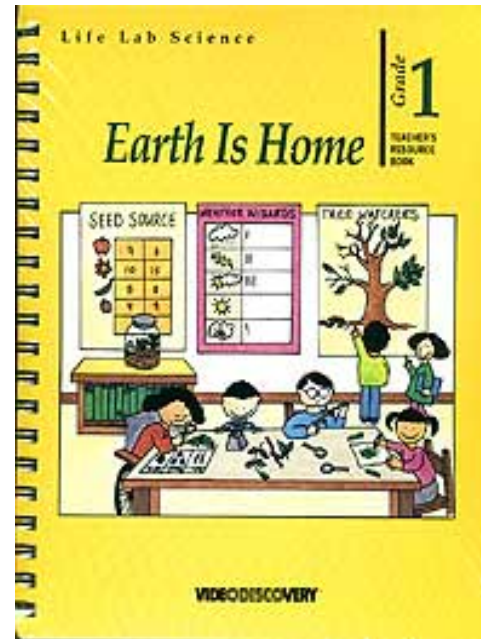
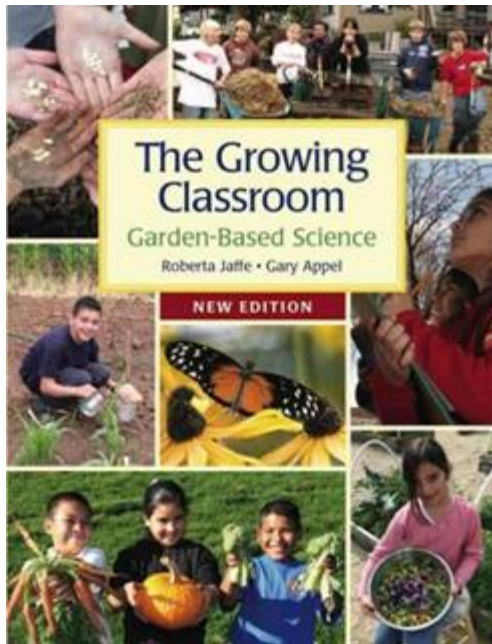
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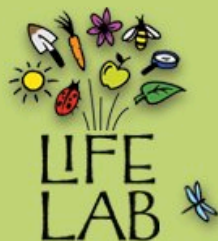


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We have trained tens of thousands of educators across the country.





Bring learning to life in the garden!



Life Lab teaches people to care for themselves, each other, and the world through farm and garden-based programs.



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FOR CHILDREN,  
YOUTH & FAMILIES



OUR GARDEN  
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## upcoming events

september 10 webinar:  
inquiry in the garden  
september 21 ssoow  
workshop

september 22 foodwhat  
benefit dinner

october 3-4 growing  
classroom workshop

october 10 pigiel  
workshop

october 11 school garden  
tour

fall sowing seeds of  
wonder field trips

october 24 creating and  
sustaining your school  
garden

november 15 growing  
healthy teens workshop

october 3 and november  
20 life lab community  
tours

Since 1979 Life Lab Science Program has supported science and garden-based education through publications, professional development, and innovative programs.

## Welcome to Life Lab

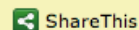
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Life Lab teaches people to care for themselves, each other, and the world through farm and garden-based programs.

Life Lab is a national leader in farm- and garden-based education. At the Life Lab Garden Classroom in Santa Cruz, California, we promote experiential learning for all ages through children's camps, field trips, youth and internship

programs, and teacher workshops.

Drawing on over thirty years of working with students we have also created curricula and workshops for educators interested in bringing learning to life in gardens nationwide.... [\[Read More →\]](#)



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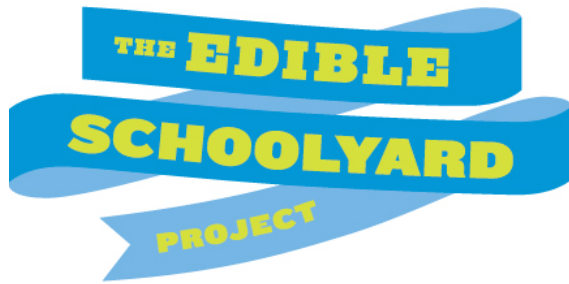


# **Q&A**

Type your questions in the chat window.



**Thank you to our program partners!**



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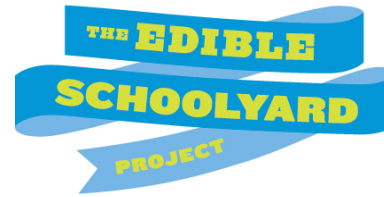


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# GROWING SCHOOL GARDENS

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**Growing School Gardens**

Co-hosted by edWeb.net, the Edible Schoolyard Project, the National Farm to School Network, and Life Lab

**Welcome to the Growing School Gardens Community!**

School gardens are a growing initiative to help children understand where their food comes from and how their food choices impact their bodies, the environment, and their communities at large.

A school garden can have an impact on the entire life and educational program of school and the surrounding community. Gardening activities can be incorporated into nearly every curriculum subject to enhance the appreciation of the natural world, and to provide hands-on learning activities for students.

This online learning community is a place for educators, gardeners, parents, and community volunteers to come together to share information and resources on how to start and maintain a school garden, and integrate it into the curriculum, the life of a school, and the local community.

The community hosts free monthly webinars and live chats with leaders in the field that are highly engaging and interactive. Online discussions provide an easy way to continue the conversation and share ideas and experiences with peers across the country, and around the world.

As a member of the community, you'll receive...

- Invitations to free webinars and live chats.
- A CE certificate for attending/viewing our webinars.
- Access to all of the recorded webinars, presentations, resources, and online discussions.

One of the pioneers of the school gardening movement is Dorothy Mullen, who is an organic gardener who lives in Princeton NJ. After the tragedy of 9/11, she wanted to do something positive for the community, so she started a school garden for Riverside

**Members** | **Administrators**

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- Invitations to upcoming webinars
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**Join us for our next webinar:**

Tuesday, March 4, 2014 at 4pm Eastern Time

**Regional Support Models for Sustaining School Gardens**

*John Fisher, Outreach Director at Life Lab*

*Park Guthrie, Garden Education Specialist for the Oakland  
Unified School District in California*

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