Collaborating for Change

Educational Food Safety Materials for Consumers

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Learning Games Lab at New Mexico State University
safer

- original research
- design research
- evaluation research
- applied research
safer
more efficient

original research
design research
applied research
evaluation research
more efficient
safer
wiser

original research
design research
applied research
evaluation research
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applied research
evaluation research
better

• Communication

richer

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applied research

evaluation research

research
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Communication

Land-grant University

original research
design research
applied research
evaluation research
Collaboration is the new competition.
Collaboration helps us change behavior.
Julia Child Was Wrong: Don't Wash Your Raw Chick

by MARIA ODOY
August 23, 2013 8:48 AM ET

Produced by the Learning Games Lab at New Mexico State University in conjunction with Jennifer Quinlan and Drexel University, as part of USDA grant 2009-51110-05853.
First, click on the sink to wash your hands.
Collaboration helps us support research.
These Virtual Labs help students learn basic laboratory techniques and practice methods used by lab technicians and researchers in a variety of careers, using specific food science lab processes. It is easy for consumers to take safe food for granted; as most people don’t understand the rigorous testing, research and assessment food and food processing requires. Healthy, safe food is of extreme importance and vital to human survival. Expert lab technicians help make sure that the food we eat and feed to our animals will not harm us or our livestock.

Created by the Learning Games Lab at NMSU in collaboration with South Dakota State University and North Dakota State University. This work was supported by USDA CSREES and USDA National Institute of Food and Agriculture under Higher Education Challenge Grant projects 2008-38411-19055 and 2011-38411-30625.
Irrigation Training Modules

Water Treatment Systems for Pre-Harvest Use

Explore four treatment methods for cleaning irrigation water for fruits and vegetables and practice testing water with the Test Strip Lab. Learn the ins and outs of each method so you can choose and implement treatment appropriate to your situation while continuing to validate, verify and monitor your process.

Animated Videos
- Overview: Water Treatment System
- Tablet Chlorinator: Water Treatment System

Interactive: Test Strip Lab
Learn how to accurately test chlorine levels in irrigation water and how to avoid common pitfalls of chlorine testing systems.

Match the test strip to the color chart
far lighter than this color chip. There must be far less than 3 ppm. Try moving it left a few steps.
conservewaterforfood.org
1.0 – Prepare the location for sampling.

Find the best place to collect samples from.

Usually we test water upstream from the irrigation pump and away from the stream bank.
Now, mark the fluorescent colonies with the sharpie.
Fluorescent colonies are coliform bacteria other than *E. coli*. These must be counted and added to the number of total coliforms.
Today, we're taking the first steps for analyzing samples from a pond, creating dilutions and filtering the water.
Method 1604
Total Coliforms and E. Coli.
Created by the Learning Games Lab at NMSU as part of a collaborative project supported by North Carolina Cooperative Extension, The Ohio State University Extension, and a 2012 Florida Specialty Crop Block Grant as part of the Multi-State Project “A systems approach to improving the safety of cantaloupe.”
Collaboration helps us reach new audiences.
SQUAD Attacks!

Event
No new cooldowns on abilities this round.

Points 10
**Critical Limit**

Deal 2 damage.

Cost: 1

**Enforce**

Points: 1

Point configurations:
- 1 point
- 4 points

GO!
Event: Public Outcry

They need more help out there! Treatment effects doubled this round.

CONTINUE
Outbreak Defeated!

Level Summary

<table>
<thead>
<tr>
<th>Status</th>
<th>Low Risk</th>
<th>High Risk</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infected</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sick</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Very Sick</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Deaths</td>
<td>5</td>
<td>2</td>
<td>7</td>
</tr>
</tbody>
</table>

REAL OUTBREAK!

In 1993, an outbreak occurred where 732 became ill from consuming contaminated beef patties in the Northwest United States. The majority of the victims were under the age of 10.
Collaboration helps us innovate with technology.
Science of Agriculture

Short animations, interactives and videos teach math & science concepts crucial to the study of agriculture.

Nutritious Nitrogen (interactive)
Plants and animals both need nitrogen to grow and thrive. Learn how to add the right amount of nitrogen at the right time to support production without polluting the environment.

Nitrogen & Agriculture (interactive)
This interactive explores the importance of nitrogen for plant, animal and soil health. Build amino acid and fertilizer molecules and calculate molecular weight in relation to nitrogen content.

Everything is Chemical (animation)
Plants and animals are mostly composed of carbon, hydrogen, oxygen, and nitrogen. These chemicals – and how they are put together – underlie everything around us.
Publication Downloads

Quarantine period (March, April) compared to:

Same time, last year: +80,148
Previous 2 months: +70,251
Videos on YouTube

Quarantine period (March, April) compared to:

Same time, last year: +109,339
Previous 2 months: +186,280

Mar-Apr 2019: 341,062
Jan-Feb 2020: 264,121
Mar-Apr 2020: 450,401
App Downloads

Quarantine period (March, April) compared to:

Same time, last year: +355,296
Previous 2 months: +257,606
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