

# In Search of the Pizza Pi ( $\pi r^2$ ): An Ecologic, Culinary and Geographic Scavenger Hunt!

## Essential Questions addressed in the Pizza Pi Afterschool Unit:

1. How do you grow a pizza?
2. What is the life cycle of the tomato plant?
3. What lives in handful of dirt (organic and inorganic)?
4. From grain to flour: How does a farmer harvest wheat and turn it into flour?
5. What do cows eat for lunch and how does that become a slice of cheese?

## Recommended Booklist:

- *The Little Red Hen (Makes Pizza)* by Philomen Sturges
- *I Will Never Not Ever Eat a Tomato* by Lauren Child
- *Wiggling Worms at Work* by Wendy Pfeffer
- *Tops and Bottoms* by Janet Stevens
- *From Wheat to Bread* by Stacy Taus-Bolstad
- *Arnie, the Doughnut (Adventures of Arnie the Doughnut)* by Laurie Kellar
- *Allison Investigates: Does Chocolate Milk Come From Brown Cows?* By Colette Omans Nicoletta
- *The World in Your Lunchbox: The Wacky History and Weird Science of Everyday Foods* by Claire Eamer
- *Secret Pizza Party* by Adam Rubin

## Supplemental Booklist:

- *The Little Red Hen* by Jerry Pinkney
- *Secrets of the Garden: Food Chains and the Food Web in Our Backyard* by K. W. Zoehfeld
- *Living Sunlight: How Plants Bring The Earth To Life* by Molly Bang and Penny Chisholm
- *Jump into Science: Dirt* by Steve Tomecek
- *Milk Makers* by Gail Gibbons
- *Home Dairy: All You Need to Know to Make Cheese, Yogurt, Butter & More* by Ashley English (resource book)

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### An Ecologic, Culinary and Geographic Scavenger Hunt!

<p><b><u>Week 1</u></b>  <b>Lesson:</b></p> <p><b>Ingredients in a Pizza</b>  <a href="http://teachfitclub.org/ingredients-pizza">http://teachfitclub.org/ingredients-pizza</a></p> <p><b>Book:</b> <i>The Little Red Hen (Makes Pizza)</i> by Philomen Sturges</p>	<p><b>Notes:</b></p> <p>Provide art materials for students to create their pizza collages (such as construction paper, scissors, stick glue, etc.)</p>
<p><b><u>Week 2</u></b>  <b>Lesson:</b></p> <p><b>Planting Tomatoes</b>  <a href="http://teachfitclub.org/planting-tomatoes">http://teachfitclub.org/planting-tomatoes</a></p> <p><b>Book:</b>  <i>I Will Never Not Ever Eat a Tomato</i> by Lauren Child</p>	<p><b>Notes:</b></p> <p>This lesson should be done at the start of the 10 week block to allow time for the seeds to sprout. Containers will need to be watered regularly.</p> <p>If in season, the teacher can also bring in a small tomato plant.</p>
<p><b><u>Week 3</u></b>  <b>Lesson:</b></p> <p><b>Working Worms</b>  <a href="http://teachfitclub.org/working-worms">http://teachfitclub.org/working-worms</a></p> <p><b>Book:</b>  <i>Wiggling Worms at Work</i> by Wendy Pfeffer</p>	<p><b>Notes:</b></p> <p>For younger students consider using big chart paper and dividing into four seasons. Allow students to choose a season and then write a 1-2 sentence journal entry on a <i>sentence strip</i>. Combine <i>sentence strips</i> on the big chart paper to create a year of journaling.</p>

<p><b><u>Week 4</u></b>  <b>Lesson:</b></p> <p><b>Top and Bottoms: What Grows Where?</b>  <a href="http://teachfitclub.org/tops-bottoms-grows">http://teachfitclub.org/tops-bottoms-grows</a></p> <p><b>Book:</b>  <i>Tops and Bottoms</i> by Janet Stevens</p>	<p><b>Notes:</b></p> <p>Consider having kids bring in various vegetables, magazine cutouts or use a book like <i>Eating the Alphabet</i> by Lois Ehlert to give pictorial examples.</p> <p>Teacher can also bring in vegetables (if possible with stems/roots still attached).</p>
<p><b><u>Week 5</u></b>  <b>Lesson:</b></p> <p><b>How Does Pizza Get its Crust?</b>  <a href="http://teachfitclub.org/pizza-get-crust">http://teachfitclub.org/pizza-get-crust</a></p> <p><b>Book:</b>  <i>From Wheat to Bread</i> by Stacy Taus-Bolstad</p>	<p><b>Notes:</b></p> <p>Consider making dough in class so that the students can see how yeast helps dough rise.</p>
<p><b><u>Week 6</u></b>  <b>Lesson:</b></p> <p><b>Farmer/Baker Journal Entry</b>  <a href="http://teachfitclub.org/farmer-baker-journal-entry">http://teachfitclub.org/farmer-baker-journal-entry</a></p> <p><b>Book:</b>  <i>Arnie, the Doughnut (Adventures of Arnie the Doughnut)</i> by Laurie Kellar</p>	<p><b>Notes:</b></p>

<p><b><u>Week 7</u></b>  <b>Lesson:</b></p> <p><b>Do Brown Cows Make Chocolate Milk?</b>  <a href="http://teachfitclub.org/brown-cows-make-chocolate-milk">http://teachfitclub.org/brown-cows-make-chocolate-milk</a></p> <p><b>Books:</b>  <i>Allison Investigates: Does Chocolate Milk Come From Brown Cows?</i> By Colette Omans Nicoletta</p>	<p><b>Notes:</b></p> <p>Bring in chocolate milk to sample (just make sure to verify students' food allergies).</p> <p>Bring in other visuals of dairy products that come from cows such as yogurt, cottage cheese, sour cream and whipped cream containers.</p> <p>Bring in different types of cheese including mozzarella of course!</p>
<p><b><u>Week 8</u></b>  <b>Lesson:</b></p> <p><b>Finding Pizza on a Map</b>  <a href="http://teachfitclub.org/finding-pizza-map/">http://teachfitclub.org/finding-pizza-map/</a></p> <p><b>Book:</b>  <i>The World in Your Lunchbox: The Wacky History and Weird Science of Everyday Foods</i> by Claire Eamer</p>	<p><b>Notes:</b></p> <p>You can also bring in pizza ingredients (ie. packaged cheese, flour, tomato sauce, olive oil, basil) and plot where they are from on the map; cast a circle (<math>\pi r^2</math>) to see how far their pizza has travelled! For instance, olive oil from Italy, wheat from Iowa, tomatoes from California, cheese from Vermont, etc.</p> <p>Bring in a big world map.</p>
<p><b><u>Week 9</u></b>  <b>Lesson:</b></p> <p><b>Little Red Hen Play</b>  <a href="http://teachfitclub.org/little-red-hen-play/">http://teachfitclub.org/little-red-hen-play/</a></p> <p><b>Book:</b>  <i>The Little Red Hen (Makes Pizza)</i> by Philomen Sturges</p>	<p><b>Notes:</b></p> <p>Invite parents to watch if they are able!</p>



<p><b><u>Pizza Party!!!!</u></b></p> <p><b>Book:</b> <i>Secret Pizza Party</i> by Adam Rubin</p>	<p><b>Notes:</b></p> <p>Read <i>Secret Pizza Party</i> to the students while they enjoy their special treat! Bon Appetit!</p>
<p><b>Notes:</b></p>	