

important to get students connected?

Experiences

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Active participation of learners improves

eating habits.

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Cookshop Evaluation Education + exposure Some students All students received new V and WG recipes in cafeteria Liquori, Koch, Contento, Castle, JNE 302-313, 1998

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School gardens are the new direction

in school-based promotion of fruits and vegetables.

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Garden-based **Nutrition Education**

Education + exposure

NE only 2.2 serv F&V/day

Some students | Some students 2.0 serv F&V/day

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Garden-based nutrition education may be one small tool with tremendous impact.

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The food system is

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vastly complex yet largely unknown.





Science agency

is the realized capacity of students to utilize their

science understandings

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to purposefully and reflectively act upon their world

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with the aim of transforming themselves and the conditions of their lives.

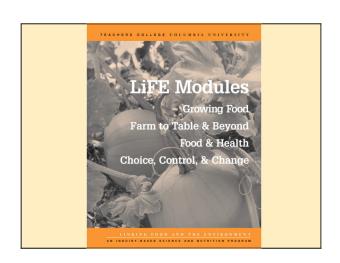
Calabrese Barton and Vora, 2006; Inden, 1990

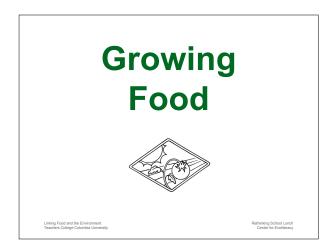
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How does **nature** provide us with **food?**

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Farm to Table & Beyond



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What is the **system** that gets food from **farm to table** and how does this system effect the **environment?**

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Food & Health



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How does **food** provide our **body** with what it **needs?**

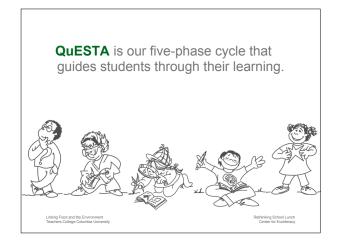
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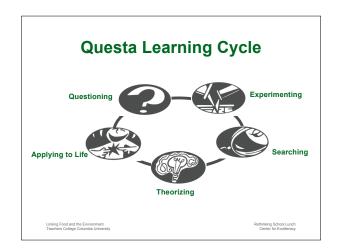
Choice, Control & Change (C3)

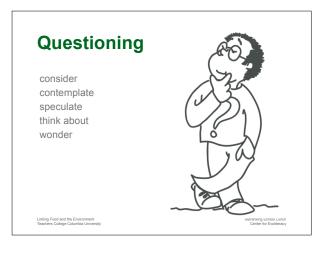
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How can we use
scientific evidence
to help us make
healthy food and
activity choices?

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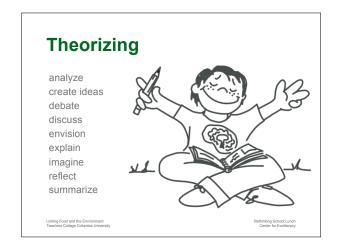














How do we evaluate what students learned?

We can understand how students' **thinking** about food systems becomes more **complex** by understandings their **learning progressions.**

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Students' grasp of the food system can range from understanding isolated parts to a synthesized whole.

Linking Food and the Environment Teachers College Columbia University Rethinking School Lunch Center for Ecoliteracy As students come to understand the food system as a

synthesized whole they can...

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...analyze how the system impacts environmental and personal health

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Rethinking School Lunch Center for Ecoliteracy ...analyze how the system impacts environmental and personal health

...describe the role of humans in the system

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- ...analyze how the system impacts environmental and personal health
- ...describe the role of humans in the system
- ...move from personal reasoning to place-based principled arguments

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The LiFE Story of Strawberry Jam

Describe all the steps to get strawberries from a farm in California to be sold as strawberry jam in a store in New York City.

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Isolated parts

More parts
Parts explained more
Parts of a system
Relationships between parts
Synthesized whole

"To deliver the strawberries you could send it on a boat or a plane or train." before LIFE

Linking Food and the Environment Teachers College Columbia University Rethinking School Lunch Center for Ecoliteracy Isolated parts

More parts

Parts explained more
Parts of a system
Relationships between parts
Synthesized whole

"First you have to cut the strawberries from a tree. Second you put the strawberries in a box. Then you send them to the city in a car."

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isolated parts

More parts

Parts explained more

Parts of a system Relationships between parts Synthesized whole

"First you have to grow strawberries. Second you take the strawberries off of the plant. Next you squeeze the strawberries. Then put some oil and you have strawberry jam."

before LIFE

Linking Food and the Environment Teachers College Columbia University Rethinking School Lunch Center for Ecoliteracy Isolated parts More parts

Parts explained more Parts of a system

Relationships between parts Synthesized whole

"First in California workers take the strawberry and transport in NY. After that in NY on factory workers with help machines made the strawberry jam." before LIFE

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Isolated parts More parts Parts explained more Parts of a system

Relationships between parts

Synthesized whole

"Strawberries come here by a plane a boat or a truck. They take to a factory and they smash it. They bring it here and they put it in a jar with jelly and that is how they call it strawberry jam." after LIFE

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Isolated parts More parts Parts explained more Parts of a system Relationships between parts

Synthesized whole

"They take the strawberries, it gets transported to a factory. It gets processed in the factory. It gets in a jar. It gets transported to a store in NY." after LiFE

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The strawberry jam question serves as a "lens" to help us see where students are along the ${f food}$ systems learning progression.

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"out there"?

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