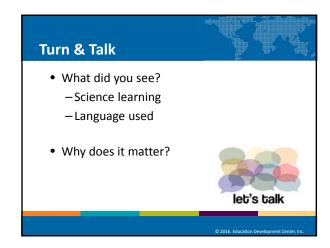
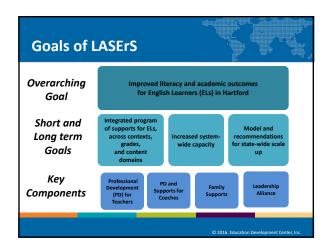
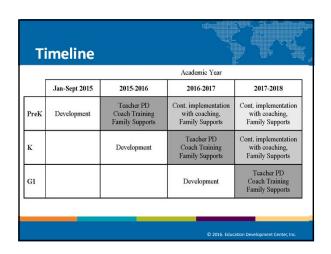




## Video Activity: Science and Language • Context: A Pre-K teacher from the Hartford area uses the natural environment to engage her students and facilitate learning science • Focus for viewing: Note the science concepts and the language being used by the teacher and children







## Component 1: Professional Development for Teachers

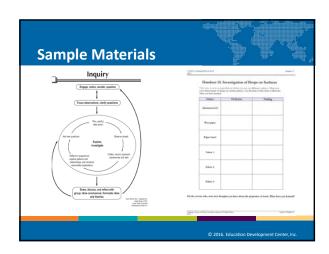
- Pre-K through grade 1 teachers from participating Hartford schools
- Instructional sessions and online resources
- Coaching



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# Engage-Explore-Reflect Cycle ENGAGE Notice, Worder, Question Predict EXPLORE Invatigate, Observe, Record data Characteristics, Formulate theories © 2016. Education Development Center, Inc.



## Component 2: PD and Supports for Coaches

Face-to-face PD Coaching protocols

Virtual coach supports including:

- Webcasts
- Webinars
- Resource library



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## **Goals for Coaching Teachers Around Science:**

- Build a collaborative relationship with the same teacher or group of teachers over an extended period of time
- Provoke teachers' own thinking about children and how they learn science concepts and skills
- Support teacher reflection on the effectiveness of their own science-teaching practices
- Collect, use, and share documentation of science teaching and coaching to support collaborative reflection for children, teachers, coaches, and instructors
- Model the types of interactions and guidance you want teachers to provide for children

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## Video Activity: Teacher Questions about Planting with Children

- <u>Context</u>: LASErS professional development specialists developed this video to demonstrate and discuss how to engage children in planting without using soil
- Focus for viewing: Note how inquiry-based science can be used to investigate plants

https://www.youtube.com/watch?v=FzoVhI4n01E

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## Turn & Talk How do planting experiences: - Engage children in science inquiry? - Support children's learning about the characteristics and needs of plants?

## **Component 3: Family Supports**

- Home activities & science-literacy kits
- School-based family nights
- Summer family events at Connecticut Science Center (CSC)



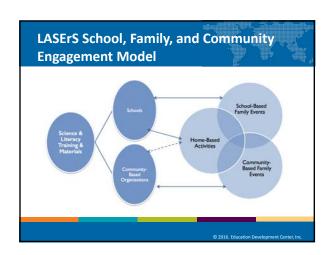
## **Goals for EL Families:**

- Be informed about children's school science explorations and the LASErS project
- Facilitate literacy-integrated science activities and conversations at home that connect to children's school explorations
- Engage in school-based family science events
- Participate in a summer family event at the CSC and utilize the CSC family guide as a resource
- Understand their important role in supporting children's science, language, and literacy learning

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# Community-Based Activities: Harnessing the Combined Power of School & Home With the assistance of the Connecticut Science Center, events will be hosted at: • Family Life Education (30 Arbor Street #102, Hartford, CT) • Catholic Charities El Centro Family Center (45 Wadsworth Street, Hartford, CT) These events will take place in May and June 2016.

## **Component 4: Leadership Alliance**

Key LASErS staff, state and district leaders, and EL literacy experts support LASErS' sustainability and make recommendations for statewide scale up

- Receive updates during development
- Provide input
- Plan for knowledge transfer
- Identify lessons learned



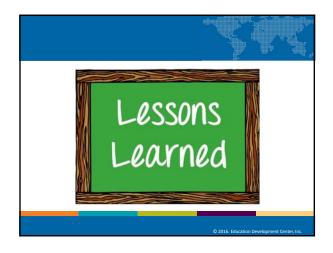
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## **Organizations Represented**

- Annenberg Institute for School Reform
- Boston College
- Capitol Region Education Council
- Connecticut Science Center
- Connecticut State Department of Education
- Edward Zigler Center in Child Development & Social Policy, Yale Child Study Center
- Hartford Foundation for Public Giving
- Hartford Public Schools

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# Lessons Learned: PD for Teachers Year 1 Summary Successful delivery Attendance Issues Variable Implementation Photo credit: Education Development Center, Inc. © 2016.

# Vear 1 Summary Successful delivery Attendance Issues Variable Implementation For K: integration with HPS Literacy Guide Vear 2 Modifications Gradual introduction of content Debriefing with HPS School site visits More scaffolding for implementation For K: integration with HPS Literacy Guide

## **Lessons Learned: Coach Training** Year 1 Summary • Supports through PD • Variable Implementation

## **Lessons Learned: Coach Training**

### Year 1 Summary

### Year 2 Modifications

- Supports through PD
- ➤ Co-instructors to "shadow" coaches
- > Status of online component unclear
- Variable Implementation ➤ One coaching cycle between sessions

## **Lessons Learned: Family Supports**

### Year 1 Summary

- Home activities & scienceliteracy kits
- School-based family nights
- Summer family event at



## Vear 1 Summary Supports through activities and events Variable Implementation Year 2 Modifications Number of school-based events modified Teacher flexibility for scheduling events (day or night) CBO-based events planned and scheduled

## Goal 2: Build capacity for supporting young English language learners by fostering the integration of literacy and science learning across school, home, and community contexts.

