



# The STEAM Trunk: A pilot study of online coaching

Dawn Williams, Virginia Tse, Gail Joseph & Juliet Taylor



# Workforce Development and Support

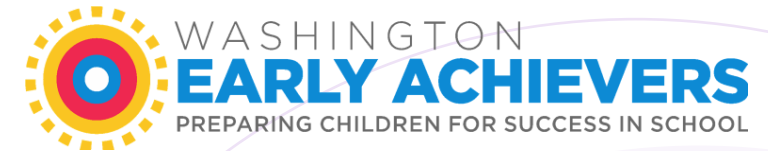


- EarlyEdU Higher Education courses
- Convene the EarlyEdU Alliance across the U.S.



Expanded Learning Opportunities

- Quality Initiative Pilot
- Quality Seal Tool
- Field Informed Professional Development



- Data Collection
- Coach Framework, Training and Consultation
- Professional Development



# Early Achievers Framework



Birth to 5 years





# Early Achievers Framework



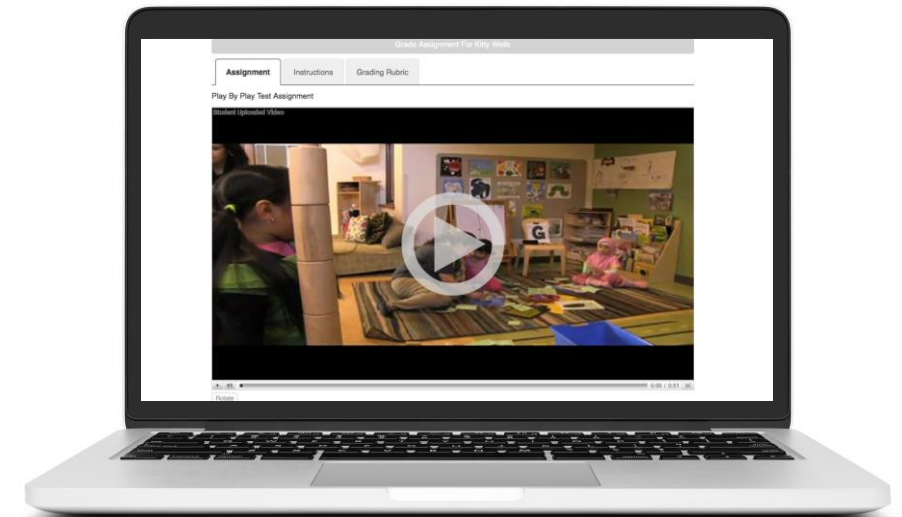
Birth to 5 years







# Increasing access to PD





The web-based show and video-annotation tool allows teachers to access content and reflection and feedback cycles at times that are the most convenient for them.

The show content is relevant to what a teacher needs to know and be able to do in their day to day work with young children.

Reflection and coaching are key in moving the needle. Approach allows for the Practice-Based Coaching framework in an accessible platform.



# Study Questions

**Quasi-experimental, mixed methods, pre/post**

**General description/questions:**

- Can digital professional development improve the quality of math instruction and support to children?
- Can we duplicate the success from a higher learning course by adapting incentives?

**Specific content questions:**

- Does teacher math comfort change?
- Does math instruction change?
- Do teachers like it?





# Preliminary Results of STEAM Trunk Pilot

**After the STEAM trunk professional development approach:**

- Teacher comfort with math domains increased
- Teacher self-efficacy increased
- Teacher beliefs on how young children learn math strengthened
- Increased math talk





# Feedback on STEAM Trunk

“I absolutely loved the show. I have learned some great strategies to incorporate math into my class.”

“I was really bad at math in school, so the subject intimidates me a little, but now I feel confident. I also really enjoyed the little clips and tips, such as books and materials, so helpful.”

“This is a brilliant format to get information to early childhood educators!!! Thank you!!”

“This is the most thoughtful and well put together series I have encountered. Thank you.”

“I am going to send these episodes to my providers with offers to support their attempts to assimilate the content into their programs.”

“I just watched the video for geometry and loved it! I have more than a months worth of great activities to do with my toddler group.”



# Scaling Professional Development

- In partnership with DCYF, Cultivate Learning will be repeating the project and study with the topic area of Positive Behavior Support using Circle Time Magazine Season 2 and accompanying “teacher toolkits”
- Promising method of supporting specialized knowledge





WASHINGTON  
**EARLY ACHIEVERS**  
PREPARING CHILDREN FOR SUCCESS IN SCHOOL

**Thank you**