

NASEM Webinar on Preschool Science & Engineering – Additional Resources

June 8, 2022. 3:00 pm – 4:00 pm (EDT)

Presenter: Alissa A. Lange, Ph.D. Director, EC STEM Lab, Associate Professor, Early Childhood Education
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www.ecstemlab.com

Articles on our Preschool STEM Professional Learning

- Development paper (research)
https://www.researchgate.net/publication/326978981_Integrating_STEM_into_Preschool_Education_Developing_a_Professional_Development_Model_in_Diverse_Settings
- Impacts paper (research)
https://www.researchgate.net/publication/351408902_Experimental_effects_of_a_preschool_STEM_professional_learning_model_on_educators'_attitudes_beliefs_confidence_and_knowledge

Articles and Publications with Educators

- Number composition in preschool – recent article:
<https://www.naeyc.org/resources/pubs/tyc/spring2022/number-composition>
- Eagle Cam Partnership: preschool teacher, in-service teacher preparation, and long term, integrated study of STEM: <https://www.childcareexchange.com/265-author-articles/the-nest/>
- These and more, free articles and column downloads: <https://www.ecstemlab.com/articles--reports.html>
- Pre-service teacher preparation in STEM – Early/Elementary STEM Collaboration:
<https://www.ecstemlab.com/pre-service-teachers.html>

Relational Trust & Professionalization

- Marcy Whitebook and colleagues - Early Childhood Workforce, Professionalization – Resources & Reports
Center for the Study of Child Care Employment
<https://cscce.berkeley.edu/>
- Relational Trust – Byrk & Schneider
<https://consortium.uchicago.edu/publications/trust-schools-core-resource-improvement>

Features of Effective Adult Learning

- How People Learn, by NAP
I: <https://nap.nationalacademies.org/catalog/9853/how-people-learn-brain-mind-experience-and-school-expanded-edition>

II: <https://nap.nationalacademies.org/catalog/24783/how-people-learn-ii-learners-contexts-and-cultures>
- EC STEM Lab Team's work highlighted in New America report, featuring high-quality, interactive minds-on, hands-on PD/PL in STEM with DLLs: <https://www.newamerica.org/education-policy/reports/extracting-success-pre-k-teaching/strengthening-stem-instruction-in-passaic-new-jersey>