

2019-2020 TEACHER TIME
LITTLE SCIENTISTS—EXPLORING ENGINEERING WITH INFANTS AND TODDLERS

Viewer’s Guide

This viewer’s guide summarizes the key ideas for exploring ENGINEERING with infants and toddlers. It also has reflection questions and activities to stimulate your thinking about how you can foster children’s learning using engineering. You can also find additional resources in the Resources section of this guide.

1. Engaging Environments

<p>FAVORITE OPEN-ENDED ENGINEERING MATERIALS</p>	
<p>IDEAS FOR ADDING VARIED ENGINEERING MATERIALS THAT REPRESENT MY CHILDREN</p>	
<p>ACCESSIBLE ENGINEERING MATERIALS: WHAT AM I DOING WELL? WHAT DO I WANT TO IMPROVE?</p>	

2. Little Engineers

Video Reflections

AS YOU OBSERVE THESE CHILDREN, WHAT MIGHT YOU SAY OR DO TO SUPPORT THEIR EXPLORATION?



1.



2.



3.

3. Nurturing, Responsive, and Effective Interactions



Describe what children are doing

Use scaffolding



Provide explanations and reasons

Encourage communication

4. Using experiences and learning opportunities to support engineering learning

Write down some ideas you want to try! Think about how they fit into the curriculum you're using.

1.

2.

3.

4.



5. Resources

Online Resources

Infant/Toddler

- News You Can Use: Early Science Learning for Infants and Toddlers
<https://eclkc.ohs.acf.hhs.gov/school-readiness/article/news-you-can-use-early-science-learning-infants-toddlers>
- Bang! Squish! Leap! Supporting the A in STEAM with Infants and Toddlers
<https://eclkc.ohs.acf.hhs.gov/video/bang-squish-leap-supporting-steam-infants-toddlers>
- Supporting the A in Steam with Infants and Toddlers
<https://eclkc.ohs.acf.hhs.gov/publication/supporting-steam-infants-toddlers>
- Little Scientists: Building Early STEAM Skills
<https://eclkc.ohs.acf.hhs.gov/publication/little-scientists-building-early-steam-skills>
- Everyday Fun with Technology and Engineering: Let's Talk About STEM Video
<https://www.zerotothree.org/resources/1574-everyday-fun-with-technology-and-engineering-let-s-talk-about-stem-video>

Birth to 5

- 15-Minute In-Service Suite, STEAM
<https://eclkc.ohs.acf.hhs.gov/school-readiness/article/steam>
- Understanding STEAM and How Children Use It
<https://eclkc.ohs.acf.hhs.gov/sites/default/files/pdf/steam-ipdf.pdf>

Mobile Apps

- Ready DLL Mobile App
<https://eclkc.ohs.acf.hhs.gov/culture-language/article/ready-dll-mobile-app>
- Text4Teachers
<https://eclkc.ohs.acf.hhs.gov/teaching-practices/article/text4teachers>



5. Resources

Online Resources	<p>Head Start Early Learning Outcomes Framework (ELOF) https://eclkc.ohs.acf.hhs.gov/school-readiness/article/head-start-early-learning-outcomes-framework</p> <ul style="list-style-type: none">■ There's the ELOF for That (video)■ ELOF Interactive Framework■ ELOF2GO Mobile App■ MiELOF aplicación móvil https://eclkc.ohs.acf.hhs.gov/es/preparacion-escolar/articulo/aplicacion-movil-mielof-en-espanol■ Effective Practice Guides <p>MyPeers https://eclkc.ohs.acf.hhs.gov/about-us/article/mypeers-collaborative-platform-early-care-education-community</p> <ul style="list-style-type: none">■ Teacher Time https://mypeers.mangoapps.com/ce/pulse/user/teams/group/profile_view?project_id=876521
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