
 **Teacher Time** Welcome!

While you wait for Teacher Time to begin, please:

- Introduce yourself in the chat box. Let us know who you are what your position is. And...
- Let us know: What is your favorite strategy for supporting early math development in infants and toddlers?



"Early math is critical; children who are prepared have an advantage that carries far beyond the early years."

High Five Mathematize, p. 2



TEACHER TIME:
Infant Toddler Cognition:
Supporting Early Math


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Guest Experts: Doug Clements & Crystal Day-Hess

Chat Room Facilitator: Jan Greenberg


 **NATIONAL CENTER ON**
 Early Childhood Development, Teaching and Learning

 **Adobe Connect Features**

Chat Room Facilitator:
 Jan Greenberg



- Download supporting documents
- Raise your hand!
- Video note
- Complete evaluation

 **NCECDTL**


 **Teacher Time** 2017-2018 Series

Four Infant/Toddler Webisodes Four Preschool Webisodes




 **Teacher Time** Cognition:
Emergent Mathematical Thinking



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Emergent Mathematical Thinking

- Early math skills predict later math skills ... and may be better predictors of academic success than early literacy skills!
- Infants and toddlers use math concepts and skills to make sense of their world.
- Using the language of math helps infants and toddlers build their vocabulary and communicate their ideas.
- Remember the ELOF goals and progressions!





Cognition: Emergent Mathematical Thinking

- Natural mathematicians
- Intuitive sense of number
- Awareness of similarities and differences is a foundational concept for sorting and classifying
- Playing with blocks lays the foundation for composing 3-dimensional shapes





Effective Practices

- Provide a variety of age-appropriate materials that support children's explorations with one-to-one correspondence.
- Introduce vocabulary used to describe number and spatial concepts during routines, play, and other parts of the day.
- Point out how objects are the same and different in any way.
- Use fingerplays, songs, and stories.
- Use math talk to describe what children see and do.
- Organize the environment to help young children know where toys and materials belong.





Effective Practices

- Provide extra support for children with suspected delays or diagnosed disabilities.
- Use the language(s) you know best when engaging in math talk with the children in your group.
- Talk with parents about the many ways they already use math and math talk with their child and in their own lives.
- Talk with parents about opportunities during daily home routines to use math talk with their child.





Approaches to Learning

Consistent, responsive relationships help infants and toddlers:

- Focus and persist
- Use their initiative and curiosity to explore their environment





Ongoing Assessment

- *Focused* observation and *intentional* engagement
- Two-way communication
- Families are the best source of information






Ongoing Assessment


- Use to plan interactions and learning experiences.
- Use as way to engage with families about their children's development.
- Share with others.






Teacher Time


Links to Resources on ECLKC:
MyPeers
T4T
ELOF2GO
Effective Practice Guides on ECLKC




MyPeers



T4T



Text4Teachers



ELOF2GO
Your Mobile ECLKC
Ages Birth to Five

