



**An Introduction to STEM in Preschool Library Programming:
What It Is, Why Do It, and How to Get Started
PART 2: Wednesday, June 19, 2019, 1:30-2:30 PM
Presented by Dr. Alissa A. Lange**

Resources and Links:

MASST website: <http://www.masstprogram.com/>

Early Childhood STEM Lab website: <http://www.ecstemlab.com/>

Next Generation Science Standards | Science and Engineering Practices:
<https://ngss.nsta.org/PracticesFull.aspx>

Next Generation Science Standards | Crosscutting Concepts:
[https://ngss.nsta.org/CrosscuttingConceptsFull.aspx](https://ngss.nsta.org/PracticesFull.aspx)

National Science Teachers Association: <https://www.nsta.org/about/positions/earlychildhood.aspx>

Science: Earth and Space Science | Moon Phases: <https://www.jpl.nasa.gov/edu/teach/activity/moon-phases/>

Storm Warning, Article in Science and Children, published by NSTA:
https://www.nsta.org/store/product_detail.aspx?id=10.2505/4/sc16_054_02_30

Videos:

- <http://earlymath.erikson.edu/feel-for-shapes/>
- <https://www.youtube.com/watch?v=B8McutvNwtI>

Extracting Success in Pre-K Teaching: Approaches to Effective Professional Learning Across Five States:
<https://www.newamerica.org/education-policy/reports/extracting-success-pre-k-teaching/>

Young Mathematicians: http://youngmathematicians.edc.org/wp-content/uploads/2017/04/Book1_CanYouFind5_24_17.pdf

Hands-On Activity

- <http://www.parents.com/fun/arts-crafts/kid/crafts-made-from-paper-plates-cups/?page=6>
- <https://www.pinterest.com/pin/367395282072117035/?lp=true>

Tips to Engage Family in Math: <https://globalfrp.org/content/download/158/1086/file/6MathPDF.pdf>

Families Participate:

http://doearticulate.s3.amazonaws.com/Module%20Nine%20Connecting%20Families%20Around%20STEM%20-%20Storyline%20output/story_html5.html

Consider Community:

http://doearticulate.s3.amazonaws.com/Module%20Nine%20Connecting%20Families%20Around%20STEM%20-%20Storyline%20output/story_html5.html

Free online early STEM PD modules:

http://doearticulate.s3.amazonaws.com/Module%20Nine%20Connecting%20Families%20Around%20STEM%20-%20Storyline%20output/story_html5.html

The JLC Class visits the Library: <https://www.smore.com/vvjig>

Perfect Partners: Libraries and the Nationwide Pre-K Movement:

<https://www.slj.com/?detailStory=perfect-partners-libraries-and-the-nationwide-pre-k-movement>

HC*Excell: <http://hcexcell.org/>

Morristown Hamblen Library, TN: <http://www.morristownhamblenlibrary.org/>

Dolly Parton's Imagination Library: <https://imaginationlibrary.com/>

STEM in Libraries Projects and Funding: <http://www.informalscience.org/projects/funding>

StarNET Libraries: <http://www.starnetlibraries.org/>

Teaching STEM in the Preschool Classroom (use code **TCP2019** for 20% off):

<https://www.tcpres.com/teaching-stem-in-the-preschool-classroom-9780807761366>

Division for Early Childhood – Recommended Practices to offer guidance for parents and professionals working with young children who have or are at risk for developmental delays/disabilities:

<https://www.dec-sped.org/dec-recommended-practices>

MASST Program Sign-up: <https://www.masstprogram.com/contact.html>

Alissa A. Lange email: langea@etsu.edu

MASST Book Recommendations:

- Spoon, by Amy Krouse Rosenthal

Math - Counting

- Ten Black Dots/ Los Diez Puntos Negros (English & Spanish), by Donald Crews
- Caps for Sale/Se Venden Gorras (English & Spanish), by Esphyr Slobodkin
- Cinco Monitos Subidos a Un Árbol / Five Little Monkeys Sitting in a Tree, by Eileen Christelow
- I Spy Two Eyes, by Lucy Micklethwait
- Build a Burrito -A Counting Book in English and Spanish, by Denise Vega
- Fiesta!, by Ginger Foglesong Guy & Rene King Moreno (bilingual)
- Cinco monitos brincando en la cama/ Five Little Monkeys Jumping on the Bed, by Eileen Christelow & Victoria Ortiz
- Lemonade in Winter, by Emily Jenkins
- Counting Ovejas, by Sarah Weeks (bilingual)
- Feast for 10/ Fiesta para Diez, by Cathryn Falwell (avail in Spanish or English)
- One Family, by George Shannon
- Great and Mighty Nikko, by Xavier Garcia (bilingual)
- Ten Little Puppies = Diez perritos-counting book, by Alma Flor Ada and F. Isabel Campoy. English version by Rosalma Zubizarreta
- Zoo Day Ole! A Counting Book, by Phillis Gershator
- Siete Ratones Ciegos (Spanish Edition) (Spanish) (Seven Blind Mice), by Ed Young
- My Numbers / Mis números (Board book), by Rebecca Emberley
- Animals To Count (Cuántos animales hay?), by Brian Wildsmith
- One is a Snail, Ten is a Crab: A Counting By Feet Book, by April Pulley Sayre and Jeff Sayre
- El Gusto Del Mercado Mexicano / Taste of the Mexican Market, by Nancy Maria Grande Tabor

- Anno's Counting Book, by Mitsumasa Anno
- Mouse Count, by Ellen Stoll Walsh
- One Little Chicken, by David Elliot
- Five Creatures, by Emily Jenkins
- The Button Box, by Margarete S. Reid
- Counting on the Woods, by DK Publishing
- Ten Black Dots / Los diez puntos negros by Donald Crews

Math – Geometry, 2-D Shapes

- Color Zoo by Lois Ehlert

Science –Earth and Space Science: Weather, Wind

- Gilberto and the Wind, by Marie Hall Ets
- The Windy Day, by G. Brian Karas
- I Face the Wind, by Vicki Cobb
- The Wind Blew, by Pat Hutchins
- While You Were Chasing a Hat, by Lilian Moore
- The Wind, by Craig Hammersmith
- Like a Windy Day, by Frank Asch
- Wind Says Goodnight, by Katy Rydell
- Kite Flying, by Grace Lin

Science –Physical Science: Mixtures and Chemistry

- Mixing (Investigations) / Mezclar (Investigaciones) (Spanish Edition) by Patricia Whitehouse (May 2004)
- Mixing, by Sheila Rivera (First Step Non-fiction)
- Oranges to Orange Juice, by Inez Snyder (cutting and squeezing)

- Tomatoes to Ketchup, by Inez Snyder (mashing and mixing)
- Potatoes (What's for Lunch?), by Claire Llewellyn

Science –Life Science: Planting and Growing

- The Life Cycle of Bean by Linda Tagliaferro
- Zinnia's Flower Garden, by Monica Wellington
- The Carrot Seed/La Semillade Zanahoria (English and Spanish), by Ruth Krauss
- Cultivamos sopa de verduras, (Growing Vegetable Soup), by Louis Ehlert
- How a Seed Grows/Cómo Creceuna Semilla (English and Spanish), by Helene J. Jordan
- The Cazuela That the Farm Maiden Stirred, by Samantha R. Vamos
- Ugly Vegetables, by Grace Lin
- The Patchwork Garden / Pedacitos de huerto, by Diane de Anda
- Seeds, Seeds, Seeds!, by Nancy Elizabeth Wallace
- Lola Plants a Garden / Lola planta un jardin by Anna McQuinn

Science –Life Science: Animal Habitats

- Wiggling Worms at Work by Wendy Pfeffer

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