Pre-Kindergarten – 1st Grade Students: Nemeth Code within UEB Contexts and Strategies for Supporting the Student in Building Math Skills

Lesson 7: Family Engagement to Support the Child's Success in Math



University of South Carolina Upstate, Spring 2020

Lesson 7 Objectives

Participants will be able to:

- 1. Support the family in creating a positive environment for learning.
- 2. Describe strategies to use when introducing family members to the Nemeth Code within UEB Contexts.
- Identify typical routines that support a child's learning of math concepts.
- 4. Explain activities outside of the home that families can take advantage of to increase the child's learning of math concepts.
- 5. Develop ideas for activities to send home for families to complete together.
- 6. Provide ideas to families for supporting their child in completing math homework.

Supporting Families in Creating a Positive Learning Environment

Guide families to:

Engage the child in activities
Set high expectations
Use a "Can Do!" approach
Take advantage of opportunities
Plan for the future



Introducing Families to Nemeth Code

- Provide print copies of materials.
- Explain the basics of the code.
- Help families find opportunities to learn braille including Nemeth Code within UEB Contexts.
- Introduce families to others who use braille including Nemeth Code within UEB Contexts.
- Invite family members to school to observe and take part in instruction.
- Explain assignments and the Nemeth Code symbols used.

Take Advantage of Typical Routines

Dressing

- Count buttons on a shirt
- Match socks

Bathing

- Fill containers "half way"
- Count the number of bath toys in the tub

Meal time

- Getting and putting items away
- Food preparation
- Sort the silverware
- Set the table
- Add ingredients e.g., 3 measuring cups of flour





What Math Concepts Can Come into Play Here?







More Ideas...



Encourage families to have the child:

- Sort objects looking for similarities in either color, shape, or size.
- Sort objects looking for differences, like which box is bigger.
- Touch and manipulate containers, blocks, shape sorters, and puzzles.
- Play games like "Go Fish" and "War" using adapted cards.
- Select toys that are educational such as puzzles or shape sorters.





Share Ideas for Activities Families Can Do Outside the Home



- Playgrounds
- Buildings
- Restaurants
- Public gardens
- Aquariums
- Zoos
- Science centers
- Theme parks
- Nature walks





Share Ideas for Shopping with Families



- Help the child braille a shopping list numbering each item on the list.
- Have the child pick out a specific number of items such as 4 tomatoes.
- Have the child count the number of items in the cart or bag.
- Give the child money responsibility.
- Talk about the sizes and weight of items.

Concepts, Concepts & More Concepts

Families can explore...

- Paths, positions, and directions in the environment
- Shapes in new and familiar areas
- Time concepts (e.g., morning)
- Temperature outside and what to wear



Numbers in the Real World

- Age and birthday
- Phone numbers
- Child's height, weight
- Address
- Time
- Prices
- Elevator buttons
- Much more



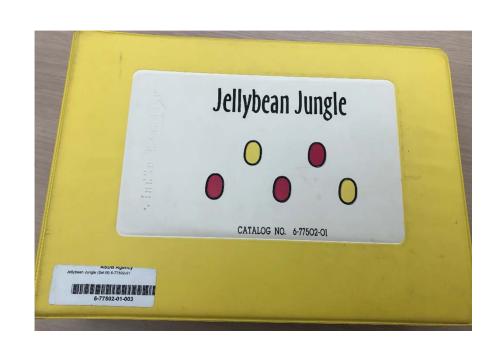
Sharing Books as a Family

Books not only build literacy skills, they can build math skills. Recommend books that:

- Rhyme
- Repeat phrases
- Contain numbers
- Contain shapes
- Include tactile illustrations



Jellybean Jungle Just one Example from APH's On the Road to Literacy Books





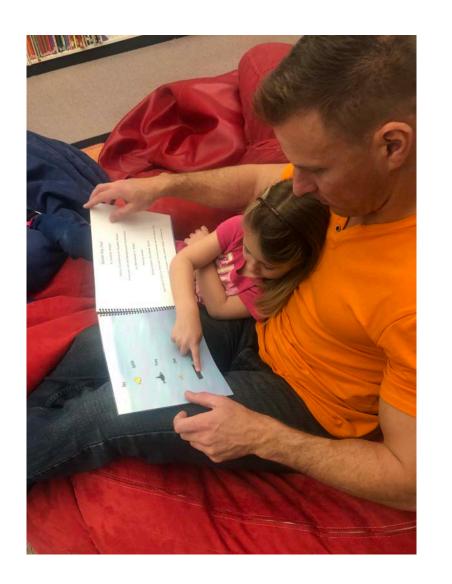
Goin' On a Bear Hunt Retold by Suzette Wright - APH





Splish the Fish by Suzette Wright - APH





It's Fun to Make Cards, Books, & Graphs

- Model by sending home cards, graphs, and games you and the child create.
- Suggest craft materials to have at home.
- Give ideas of how to incorporate math concepts into the fun!



Creating Graphs

- Model how the child can collect data and make a chart.
- Stress counting
- Encourage comparisons
- Lots of things to graph!
 - Favorite ice cream flavors
 - Number of times Grandma gave each child a hug
 - How many steps it takes to go from the kitchen to each room in the house

Paths to Literacy — Lots of Ideas for Families



Ideas for Success in Completing Math Homework

- Discuss with families the need for high expectations and communication.
- Ensure the child has a work space with ample room and needed tools.
- Provide the family print copies of materials.
- Give ideas of manipulatives the child can use that are at home or send home materials to use.
- Encourage families to brainstorm with the child about times they need to self-advocate.

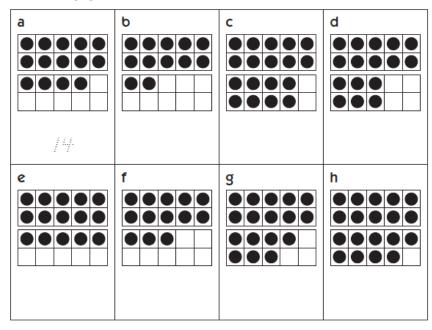
First Grade Math Homework

Count the Spots

1 Trace each numeral.



2 How many spots?



Tanya,

For homework tonight Connor's class is completing the <u>Count the Spots</u> worksheet. I've brailled the numbers out for Connor on the attached page. Please have him read the numbers to you and then have him braille them. Remind him that the numeric indicator is dots 3-4-5-6 and he needs to put it in front of each number. His numbers should look like the list below. I put the dot numbers next to each number for you so if you have to help him you know what keys to tell him to press on his brailler.

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ii :: i: (3-4-5-6)(2)(2-3)
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: :: :: (3-4-5-6)(2)(2)

For the second part have him count the number of spots on each card and braille the number on his paper. His first answer should look like this for 14.

Text me if he gets stuck or you're unsure about the Nemeth numbers.

Carole

Your Attitude Influences Your Student's Attitude

Encourage your student to:

- Do their best each and every day.
- Advocate for themselves.
- Be positive about themselves.



"Not only can I do it, it's fun!!"