



Planned, Purposeful, & Playful: Mathematizing Your Pre-K Classroom

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Introduction

- Who am I? (Who are we?)
- Who are you? (Stand Up If...)
- What will you get out of this session?

Agenda

- NCTM & NAEYC Joint Statement Discussion
- "Planned, Purposeful, & Playful"
- Integrated Centers
- Debrief

NCTM & NAEYC Joint Statement

- Read the Summary.
- Pick out 1 word, 1 phrase, and 1 sentence that speak to you.
- Discuss this with your group.
- Share-out words, phrases, sentences.

Key Content Areas

- Number & operations, geometry, and measurement are most critical areas for 3- to 6- year olds
- Algebraic thinking and data analysis should receive less emphasis during early years but should be woven into the other areas where they fit naturally.

Integration

"Also important is weaving mathematics into children's experiences with literature, language, science, social studies, art, movement, music, and all parts of the classroom environment."

Science of Learning

Learning occurs best when children
*are mentally active, engaged, socially
interactive, and building meaningful
connections to their lives.*

Learning Through Play

"Play does not guarantee mathematical development, but it offers rich possibilities. ... Teachers enhance children's mathematics learning when they ask questions that provoke clarifications, extensions, and development of new understandings."

Learning Through Play

"Play is often talked about as if it were a relief from serious learning. But for children, play is serious learning."

—Mr. Rogers

"*Play* IS THE
HIGHEST FORM
OF *Research*"
—Albert Einstein



Center Exploration!

- 5 centers total = ~7 minutes per center
- Look at directions and use materials to do the activity with a partner. Take turns asking some of the example questions.
- Try an extension or discuss ways you might modify the activity for your students.

Collaboration & Brainstorming

- What are your take-aways?
- How could you adjust one of these centers to work for your students?
- What do you still have questions about?

Closing Thoughts

- Please share your info with others if you're interested in continuing to collaborate together!
- If you need me:

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