DO WE HAVE TIME TO PLAY?
For the next 25 minutes, you are to interact with the materials of your choice. No rules.
What did you notice?
What did you make?
Were you figuring something out? What?
What did you wonder?
Were you pursuing a question? What question?
What math did you play with?
Mathematical play is...

- A context in which children can demonstrate their own learning and help scaffold the learning of others.

- A particular attitude or approach to materials, behaviors, and ideas and not the materials or activities or ideas themselves; play is a special mode of thinking and doing.

- Where multiple end points or outcomes are possible. There is no “right” answer.

Resource: What Makes Mathematics Play?
The “buts”…

- Am I allowed to play?

- Do I have time to play?

- It is OK to have my struggling students play?

- Do I have to choose between intervention and play?
Play is rampant with mathematical learning opportunities.

“Play does not guarantee mathematical development, but it offers rich possibilities. Significant benefits are more likely when teachers follow up by engaging children in reflecting on and representing the mathematical ideas that have emerged in their play.”

NAEYC/NCTM 2002)

Mathematicians ask themselves questions when they work and play.

“Play is rife with opportunities for engaging in discussions with peers.”

Purposeful Play

Because play is safe and familiar, children feel free to take risks and “try on” new learning.

Because play is safe and familiar, children feel free to take risks and “try on” new learning.
Order of Play

- What did you notice?
- What did you wonder?
- What did you make?
- Were you figuring something out? What?
- Were you pursuing question? What question?
- What math did you play with?
Mathematicians ask themselves questions when they work and play. It is important to understand how to talk to kids during play. You want to know about what they are thinking – not imposing your thoughts on their play.

## Conferring During Play

The child’s interests and questions drive the exploratory play time. However, the teacher’s role as coach, thinking partner, and play partner is very important as well! Conferring during play is a balance of valuing the child’s ideas and choices while also nudging their thinking. This language should be supportive of that responsiveness, and not box you into one type of conversation or make your interactions with children formulaic.

### Deep Listening is Ongoing Throughout the Conferring Process

<table>
<thead>
<tr>
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### Researching Language

- Conferring begins with researching the child's thinking and using noticing language in order to better understand what the child is doing and thinking.
- These interactions should focus on the teacher's genuine curiosity in the child's thinking, rather than inserting her own ideas or expressing judgment with statements such as “I like how you...” or “Why don’t you try...”

### Noticing Language

- Look how you...  
- That’s so interesting how you...  
- It looks like you’re trying to... is that right?  
- I notice you decided to...

### Wondering, Connecting and Inviting Language

- **Wondering** language builds upon the child’s current thinking and understanding to gently nudge the child towards a new/different/extended idea that she may choose to pursue.
- **Connecting** language serves as a bridge between the play of different children or the same child’s play over time.
- **Inviting** language offers a specific idea or question for a child to take up if she chooses.

### Summarizing and Paraphrasing Language

- **Summarizing or paraphrasing** a child’s ideas may help clarify a question or idea a child wants to pursue.
- **So first you made... and then you decided to...**

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| What are you thinking about right now? | What are you wondering about? | What are you making? | How did you make that? | What are you working on figuring out? | Will you tell me about this? | Are you thinking that...? | Look how you... | That’s so interesting how you... | It looks like you’re trying to... is that right? | I notice you decided to... | I’m wondering what would happen if you... | I’m wondering how you might... | I’m wondering why/how you decided to... | Remember yesterday when Alexis told us how she was trying to figure out how to... You might try... | This reminds me of when we learning about... I wonder if you might try... today? | Remember last week when you thought about... while you were playing with the... You might go back to thinking about... today. | We wrote some questions about... on Monday. You might read them again and see if there’s one you want to work on today. |
|--------------------------------------|--------------------------------------|----------------------|-----------------------|--------------------------------------|-----------------------|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|------------------|--------------------------|

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[IMSA®](https://www.imsa.edu)
Mathematical Play Content

- Classifying
- Exploring magnitude
- Enumerating
- Investigating dynamics
- Studying patterns and shape
- Exploring spatial relations
Resources

- **Playing with Mathematics: Play in Early Childhood as a Context for Mathematical Learning**
  
  https://www.merga.net.au/documents/MERGA33_Symposium_BobisEtAl.pdf

- **Purposeful Play: A Teacher’s Guide to Igniting Deep and Joyful Learning Across the Day**
  
  https://www.heinemann.com/products/e07788.aspx

- **Math Play: How Young Children Approach Math**
  

- **You Need A Play Table In Your Math Classroom!**
  
  https://saravanderwerf.com/2017/05/29/you-need-a-play-table-in-your-math-classroom/

- **Making Space for Mathematical Play**
  