

FACILITATOR'S GUIDE

SYSTEMS THINKING

Systems Thinking in Early Childhood: **Shifting Perspectives**

WHAT'S IN THIS PD2GO PACK?

To support young children's learning and development effectively, teachers and providers need to think about situations from multiple perspectives. This pack introduces the ladder of inference, a systems thinking tool that helps us see and understand multiple perspectives and make better decisions in our daily work.

Your Participants Will...

increase their capacity to identify their mental models and understand how they shape behavior and influence decisions.



SUPPORTING MATERIALS

Facilitator's Guide Everything you need to facilitate this PD2GO presentation on *Shifting Perspectives*, including an interactive presentation page along with step-by-step presenter's notes.

Coaching Corner One-page resource with self-reflection and practice opportunities that can be explored individually, with peers, and in professional development sessions.

Additional resource materials related to this pack provide opportunities to explore and expand your skills and knowledge through **Digging Deeper**, **Resource Links**, and **Family Connections**.



FIRST5

HOW TO USE THIS FACILITATOR'S GUIDE

This Facilitator's Guide will provide you with step-by-step information on how to present this session using the interactive presentation page and downloadable materials specific to this PD2GO pack. We recommend opening the pack presentation as you go through this Facilitator's Guide.

Presentation Information

Text written in italics is meant to be spoken out loud during the course of the presentation.

Other text, marked with this icon (1), offers important information such as instructions or suggested answers to facilitate the presentation of this PD2GO pack.



STEP 1: START

PRESENTATION SEQUENCE

FACILITATOR'S NOTES



сыск 🧙 Step 1 - Start

Facilitator: /

r: I'd like to tell you a story that illustrates mental models.



Facilitator:

Marco invited two of his coworkers, Rochelle and Mai, to his wedding. Although they hadn't met his fiancée, they were thrilled to be a part of Marco's special day. Rochelle offered to drive Mai to the ceremony. When they arrived at the church, Mai asked, "Why are we at the church? Why aren't we going to the bride's house?" Rochelle was surprised at her question. She responded, "Why would we go to her house? We haven't even met her yet." Mai said, "In my country, when a couple gets married, everyone meets at the bride's house and goes with her to the church or temple."

What happened here?



Invite participants to respond. If not stated by the group, share the following:

Facilitator:

Rochelle and Mai had different ideas about where and when guests gather at weddings.

We all have assumptions or pictures in our mind about how the world works—in systems thinking, we call these pictures "mental models." Our mental models strongly influence our thoughts and actions. For example, if Mai had been driving the car, she probably would have looked for a house, not a church.











STEP 2: Continued CONNECT

PRESENTATION SEQUENCE



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When we consider our mental models, we resist the urge to jump to quick conclusions.

FACILITATOR'S NOTES

friends? Or, what if your mental model pictures Tony as shy or uneasy around other children? What might your assumptions be then?



The same situation can be interpreted in different ways. Thinking that Tony is usually outgoing and playful, you might assume he is not feeling well. But if you think of Tony as shy and uneasy, you might not assume he's feeling ill. Either way, the circumstance remains the same, but what you think and might do are different.

As we see in this example, our mental models directly impact how we interpret different situations. They also influence our actions.

Systems thinkers recognize that their mental models may not always be accurate or complete, so they intentionally check their theories and assumptions to avoid jumping to quick conclusions. They consider other perspectives about the situation.



Facilitator:

When we pause and reflect on our mental models, we resist the urge to jump to quick conclusions. As a result, we make more thoughtful decisions.



o to step 3: LEAR

STEP 3:



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FACILITATOR'S NOTES



сыск 🔂 🦷 Step 3 - Learn

Facilitator: One systems thinking tool we use to intentionally check our mental models is the ladder of inference. The ladder of inference illustrates how we move from observation to assumptions to action.



Facilitator:

We experience many different situations throughout the day. For example, a father dropping off his daughter at family child care, team members participating in a staff meeting, or children painting at easels.



Facilitator:

Of course, our brains don't overload us with ALL the details; to help us process the huge amounts of information that surround us, our brains filter what we experience so we only notice certain aspects of the situation.



CLICK

We then add meaning to what we see based on our past experiences. Over time, this process leads to assumptions and beliefs that become our mental models about the world.



LADDER OF INFERENCE

LADDER OF INFERENCE

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NOTICE





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FACILITATOR'S NOTES

Finally, we act. As we saw in the example about Tony, we make decisions and take action based on our mental models.



So how do we test our mental models and make more effective decisions? We begin by intentionally paying attention to the observable information around us. We ask ourselves:

- □ What did I notice or pay attention to?
- Did I miss or ignore anything?
- What other information do I need to understand this situation?



We then begin to identify our mental models:

- □ What thoughts or feelings came up for me?
- What assumptions do I have about this situation?
- Are there other perspectives I might consider?



We also can invite others to share their perspectives. We might say:

- I wonder what you thought about...
- I'd like to know how you feel about...
- Here's my perception. Can you help me understand yours?

Let's see how we can use the ladder of inference in our early childhood work.



STEP 3: Continued

PRESENTATION SEQUENCE



FACILITATOR'S NOTES



Reference handout.

"Using the Ladder of Inference in Everyday Situations"

Mateo and Sonya own a family child care program. At 7:30 a.m., they see Ravi bring his daughter Anna into the room, fill in the sign-in sheet, quickly wave goodbye to Anna, and then

Ask a volunteer to read Vignette #1 with you.

Facilitator:

In sorry Ravi left so quicky: Invatical to ach thin what She dean't seen to be airon much when the 's heet. Un he 's always Risk to the airon Risk to the ai





Facilitator:

leave.

Sonya.

Sonya: I'm sorry Ravi left so quickly; I wanted to ask him what Anna likes to eat at home. She doesn't seem to be eating much when she's here.

I will play the role of Mateo, and our colleague (state volunteer's name) will play the role of

Mateo: Oh, he's always like that. He never talks to me.



Facilitator:

Now let's apply the ladder of inference to this situation. What information do we have pooling around the bottom of the ladder?



Invite participants to respond. Possible responses include:

- Ravi brought his daughter into the room.
- Ravi signed the sign-in sheet.
- He waved goodbye to Anna and then left.

Facilitator:

Based on this information, what did Mateo and Sonya pay attention to?









Facilitator: Imagine this scene: A consultant is working with your program to help you implement a math literacy curriculum. Today is his first day,



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PRESENTATION SEQUENCE
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The ladder of inference invites
us to intentionally identify and test our assumptions before taking action.
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Go to step 5: EXPAND









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Senge, P., Kleiner, A., Roberts, C., Ross, R., & Smith, B. (1994). The Fifth Discipline Fieldbook. Doubleday.

The Ladder of Inference

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