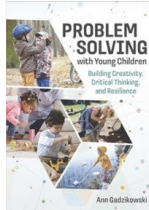


Magic Moments: Active Problem Solving with Young Children

Ann Gadzikowski, M.Ed



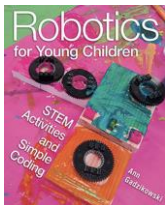
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About me...



2

My books...



3

Session Agenda

- Part 1: The best problems
- Part 2: A problem-solving framework
- Part 3: A community of problem solvers

4

What are your most memorable mistakes?



5

Poll: Making Mistakes

6

“As educators, we must think of problems as
an unlimited natural resource
generated inside our own classrooms.”

7

What problems happen in your classroom?



8

Types of problems

- **Accidents** -- Spills, bumps, and crashes
- **Social** -- “You can’t play with me!”
- **STEM** -- Engineering challenges

9

Accidents



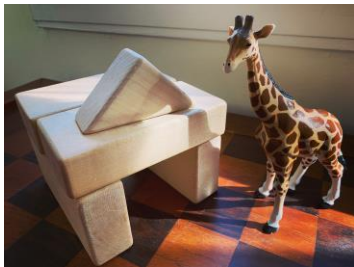
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Social



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STEM



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Part 2: A Problem-Solving Framework

- 1. The framework
- 2. Questions to ask, things to say

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A Problem-Solving Framework

- 1. Is everyone safe?
- 2. What's happening?
- 3. What can we try?
- 4. How did it go?

14



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Poll: How would you respond?



16

A Problem-Solving Framework

1. Is everyone safe?
2. What's happening?
3. What can we try?
4. How did it go?



17

Questions to ask, things to say

- "It sounds like it's time to solve a problem."
- "Let's talk about what's happening."
- "Tell me what you're thinking."
- "I'm wondering what's going on."
- "I'm here."
- "I'm listening."
- "I'm ready to help you solve this problem."

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Poll: How might you respond?



20

A Problem-Solving Framework

1. Is everyone safe?
2. What's happening?
3. What can we try?
4. How did it go?



21



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Poll: How would you respond?



23

A Problem-Solving Framework

1. Is everyone safe?
2. What's happening?
3. What can we try?
4. How did it go?



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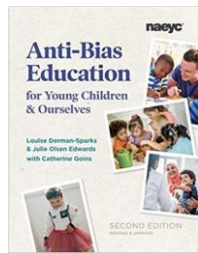
Part 3: A community of problem solvers



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Looking at problems with an **Anti-Bias** lens...

- Societal attitudes about gender and problem solving
- Cultural contexts
- Consider differing abilities



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Poll: Are you good at math?

27

Carol Dweck's research on girls and math

$$\zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s}$$

28

Consider cultural contexts



29

Consider non-verbal approaches
to problem solving



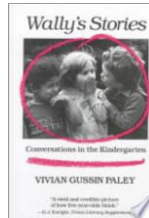
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Create wonderful problems to solve



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Vivian Paley's big bag of sand

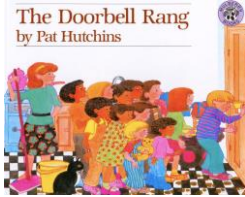


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Problem-Solving During Story Time



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Other great picture books...

- *If You Give a Mouse a Cookie* by Laura Numeroff
- *A Chair for My Mother* by Vera B. Williams
- *Brave Irene* by William Steig
- *Can I Play Too?* by Mo Willems
- *Frog and Toad Are Friends* by Arnold Lobel
- *Milo Imagines the World* by Matt de la Peña

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Problem-Solving During Group Time

Role play problems with dolls, puppets, and people.



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Young Children and Climate Change



38

UNICEF's climate and environmental sustainability strategy includes:

- Make children a focus of environmental strategies
- Empower children as agents of change

39

How to empower young children?



40

Creative problem solving play that focuses on:

- Water
- Engineering
- Weather
- Outdoor habitats (and nurturing a love of nature)
- Compassion and caring for the Earth and each other

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In closing...

“We are all problem solvers.”

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Contact Information

- anngadzikowski.com
- [LinkedIn](#)
- [Facebook](#)
- [Twitter](#)