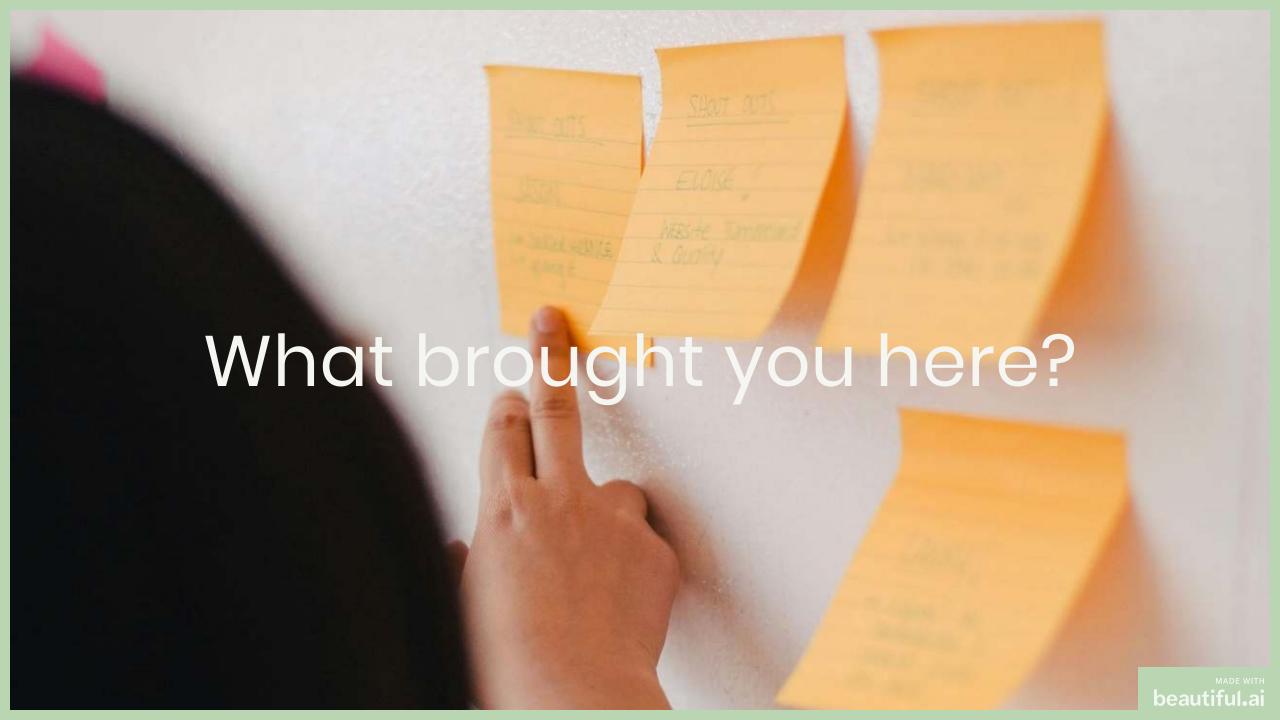
# Untethered Thinking

Design Thinking Frameworks for Tech-Free Student Brainstorms

Jen Solomon



#### About Me



13 years in schools



Spouse and 2 kids



Struggled with AI





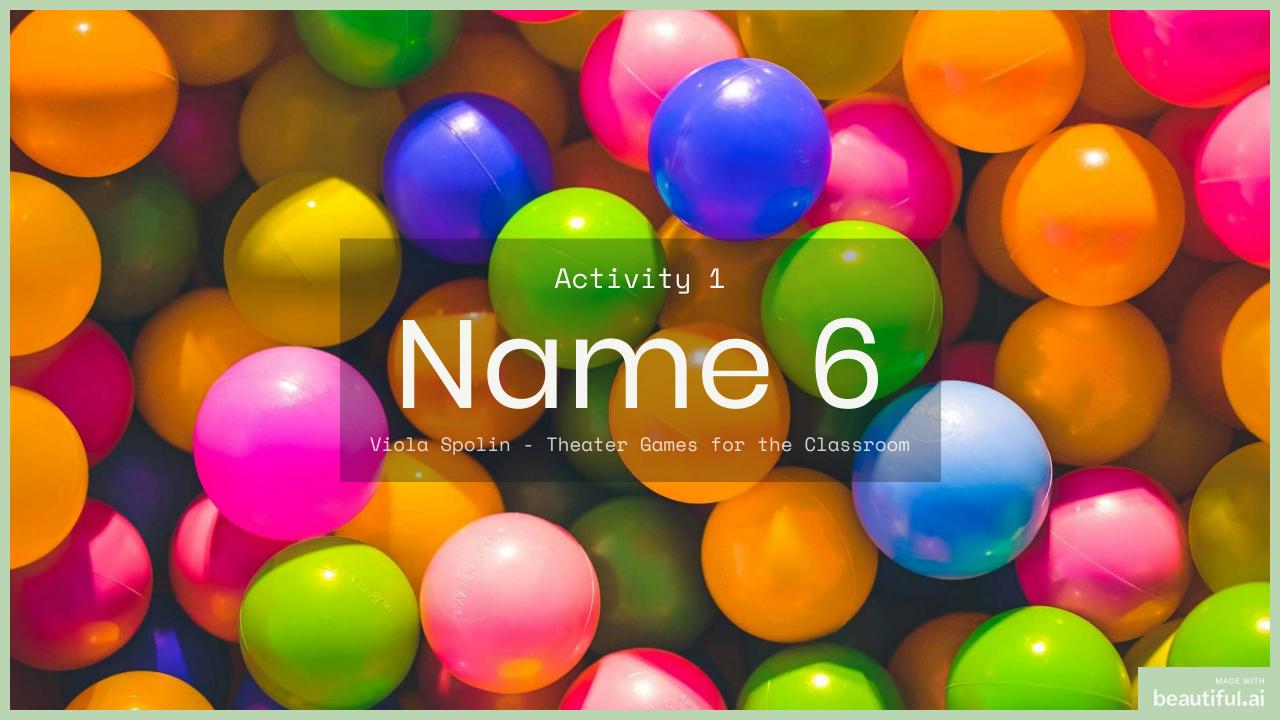






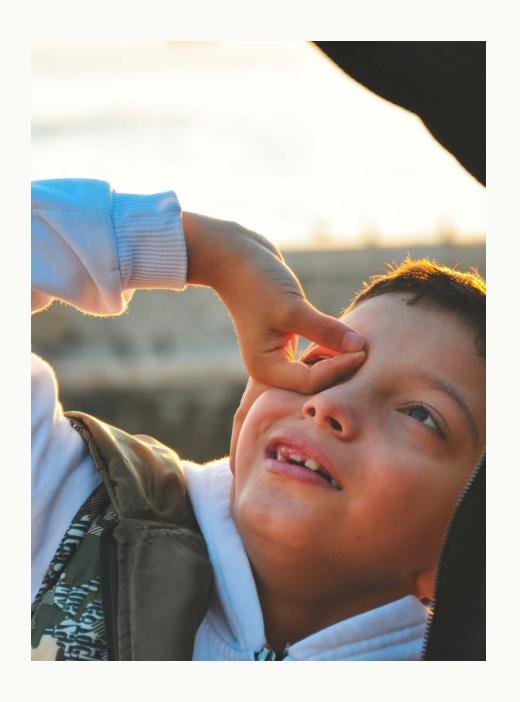






### Brainstorming Protocols

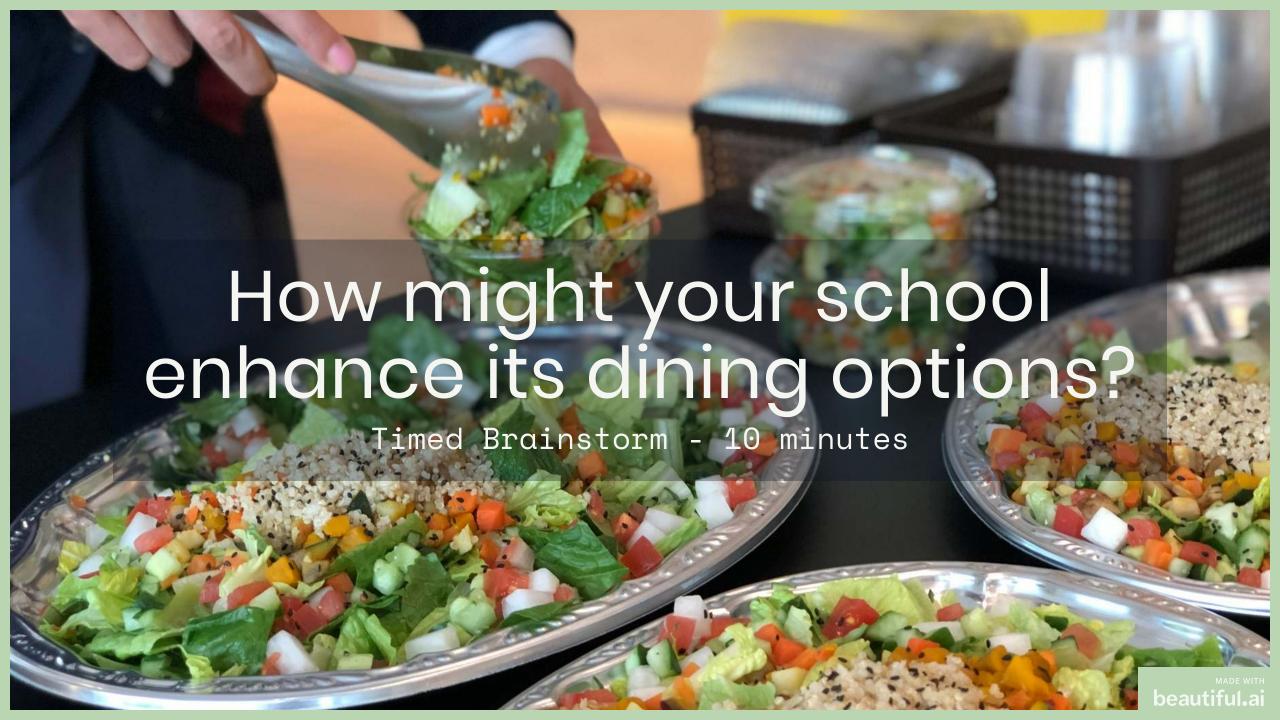
- Sticky notes & Sharpies
- 1 idea per sticky (very few words)
- Place sticky notes in center of group
- Defer Judgement
- Quantity over Quality
- Encourage Wild Ideas
- Build on Ideas



"It is easier to tone down a wild idea than to think up a new one.,

Alex Osborn





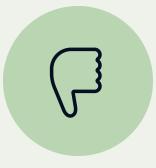


## My Al Benefits and Concerns



Benefits

Offload tasks
Simple crowdsourcing
Understand my students



Concerns

Over-reliance on cognitive outsourcing

Skill atrophy

Personal litmus test

"Memory is the residue of thought,

Daniel T. Willingham



"If students rely on Al for their education, what skills would they even bring to the workplace?..

James D. Walsh



#### Why invest in student brainstorms





Student voice increases agency



Develop creative confidence



Increase
mattering students feel
they have
added meaning
and value

Tom Kelly, Creative Confidence

# "Like a muscle, your creative abilities will grow and strengthen with practice"







## How did those feel?



#### Mindmap

- 1. Start with central problem
- 2. Branch off
- 3. Refine ideas
- 4. Can prescribe quantity of branches or time
- 5. Draw connections

#### **SCAMPER**

- 1. Substitute
- 2. Combine
- 3. Adapt
- 4. Modify
- 5. Put to another use
- 6. Eliminate
- 7. Reverse

#### Crazy 8s

- 1. Paper folded into 8 sections
- 2. Set 8 minute timer
- 3. Sketch an idea for 60 seconds in 1 box
- 4. Continue for all 8 minutes until each box is filled

## Questions?