



ILLINOIS SCIENCE &  
TECHNOLOGY COALITION

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EDUCATION

**STEM Challenge Teacher PD | October 2022**



# TODAY'S AGENDA

- ~~• **Pre-Session: New Teacher Orientation**~~
- ~~• **Session 1: Welcome Back | 2022-23 Orientation**~~
- ~~• **Session 2: Mentor Matching Engine**~~
- ~~• **Break**~~
- **Session 3: Breakout Sessions: Process Journaling**
- **Lunch Break**
- **Session 4: Meet Your Mentors**
- **Session 5: Wrap up and Next Steps**



# Goals

- Understand Process Journaling
- MME and Process Journaling
- Setting up in the Classroom.



**Teachers,  
How do you emphasize  
proccess over product in  
your classroom?**



# Outcomes of Process Journaling

- Emphasizing Process over Product
- Reflection on learning over time
- Recognizing evolution of thinking
- Digest skilled learned and applied in the process





- A dated journal entry
- Document steps
- Evolution of thought
- Record feedback and changes
- Reflect on learning
- Record "meeting minutes"
- Challenges and troubleshoot
- Questions or concerns
- Pictures, drawings, descriptions
- Organizing "to-do"



- Additional work
- No wrong or right way to do it
- No one format
- Neat/formal/ final

# It's all in the prompts

Prompts help pull information out of students in a constructive and organized way.

More than “here’s what we did.”

Think of as "Thought starters."

- **Include an action (reflect, think, recall)**
- **Open-ended and broad (challenge, a pivot, a success!)**
- **Helpful Headings**

## **Reflect:**

What challenges you have encountered thus far in the process? Have you circumvented them? If so, How? If not, why?

What new decisions did your Team make this week?

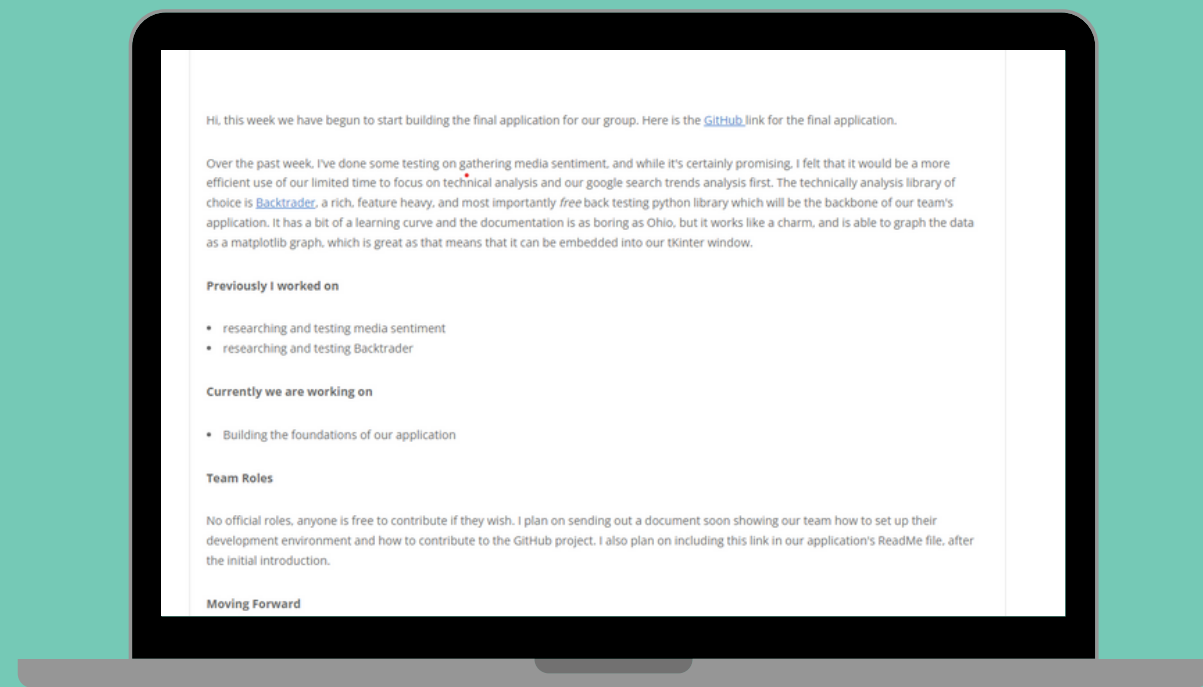
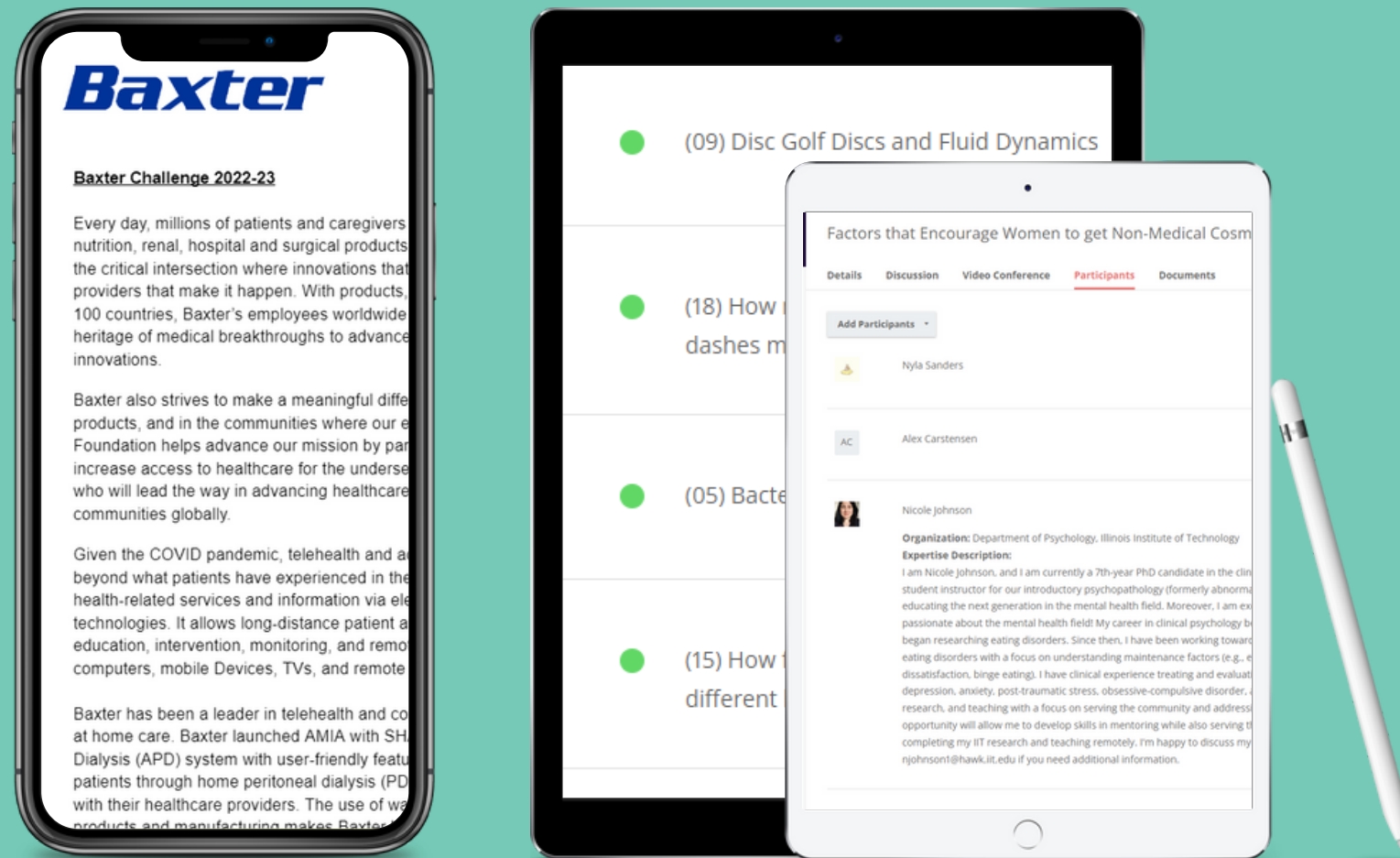
Why did you make that choice?

What was the impact on your final solution?

## **Tasks Completed this week:**

## **Next Steps:**

## **Questions for Mentors:**



# MME IS the Process Journal

## With Benefits...

- Allows oversight on weekly entries/progress
- Keeps mentors up to speed
- Dated record
- Lives in one spot for teams to reference



# What can this LOOK like?

Many ways to do this - we will walk through 2 options.

## Recurring Template

Template provided to the students used to format each MME Post and pull out needed information

### Example:

Reflect on decisions and changes made this week.

List completed tasks.

Describe next steps.

Note challenges or questions.

## Schedule w/ Varied Prompts

Schedule provided to the students used to format each MME Post at a designated milestone to pull out specific needed information at the given time.

# What can this LOOK like? - Template

## **Bodie Navigato** 07/11/2022 12:27 PM CST

Hi, this week we have begun to start building the final application for our group

Over the past week, I've done some testing on gathering media sentiment, and while it's certainly promising, I felt that it would be a more efficient use of our limited time to focus on technical analysis. The technical analysis library of choice is Backtrader because it is a rich, feature-heavy, and most importantly free back-testing python library which will be the backbone of our team's application. It has a bit of a learning curve and the documentation is as boring as Ohio, but it works like a charm, and is able to graph the data as a matplotlib graph, which is great as that means that it can be embedded into our tKinter window.

### PREVIOUSLY WORKED ON

- researching and testing media sentiment
- researching and testing Backtrader

### CURRENTLY WE ARE WORKING ON

- Building the foundations of our application
- Team Roles

### MOVING FORWARD

The Strategy used currently is a simple crossover strategy. In my quick tests works it works in stability; not so much when things turn volatile, something Bitcoin is infamous for being. Perhaps by using our google trends data, and hypothetically our media sentiment data, we might be able to create an indicator that predicts volatile prices, in which we can act accordingly.

# PREFER MORE STRUCTURE?

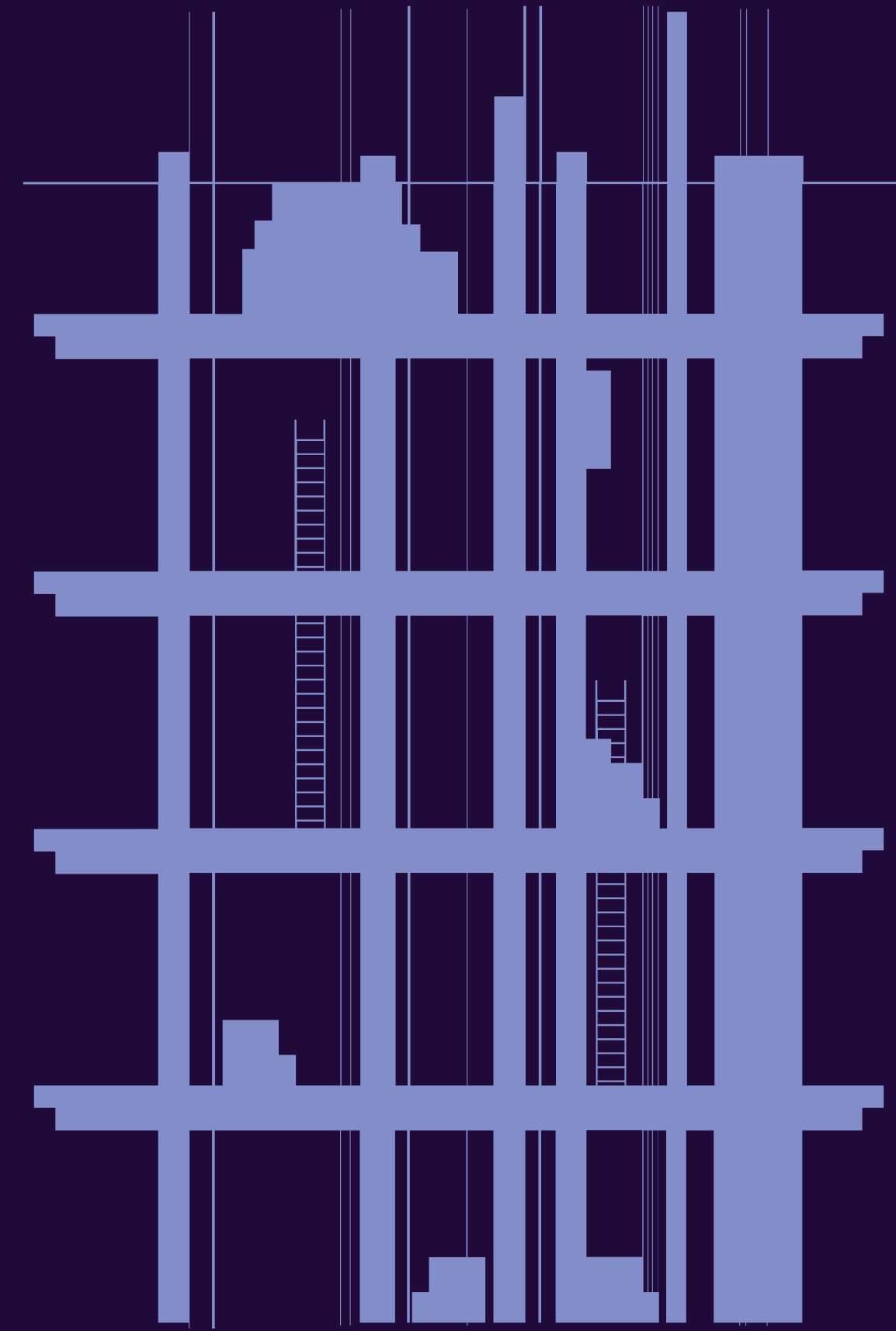
Lets looks at the schedule options.

## 6x3 | The Bright Project Schedule

- [Week 1](#): Tuesday, July 5th - Friday, July 8th
- [Week 2](#): Monday, July 11th - Friday, July 15th
- [Week 3](#): Monday, July 18th - Friday, July 22nd
- [Week 4](#): Monday, July 25th - Friday, July 29th
- [Week 5](#): Monday, August 1st - Friday, August 5th
- [Week 6](#): Monday, August 8th - Friday, August 12th

### Week 1

Phase	Date	Task	Deliverable
Research	July 5th 1:30-3:30	<input type="checkbox"/> Establishing Community Norms <input type="checkbox"/> Identity Circles <input type="checkbox"/> <a href="#">Introduction to the</a>	Challenge Document Highlight in Green what's interesting and exciting Highlight in Red where you have questions or confusion





# LET'S BUILD IT....

## Creating a "Journal Schedule"

- Step 1: Map out semester
- Step 2: Develop milestone and touchpoint prompts
- Step 3: Complete Journal Schedule Template
- Step 4: Share prompts with students

# Map out semester

## THINK...

- when will the first post be?
- when will students decide on their focus area?
- when will the most work time take place? (aka when will changes and advancements are made)
- when should they have the initial solution brainstormed/outlined?

First Message

Defining the Problem

Iterating

Research

Narrowing in  
on solution

Finalizing

# What we want to know

## GUIDE...

- What do you want to know?
- What do you want their mentors to know?
- Corresponding worksheets or activities they can share.
- What do you want students to reflect on?

First Message

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# What we want to know (thought starters)

## At the Start.....

- Think about what is confusing or exciting about the challenge statement. Share and tell why.
- Reflect on how you are feeling at the start of this journey.
- Think about the potential user groups. How will you understand and identify one?
- Reflect on which focus area your group is interested on and why.
- Think about roadblocks that are preventing you from moving forward. How are they challenging you?

## In the Middle.....

- Reflect on a challenge faced recently with your solution.
- What changes happened that made a big impact? Why?
- How has your idea evolved since your initial brainstorm?
- Reflect on the biggest learning moment you have experienced so far in this journey.

## In the Home Stretch.....

- What feedback was received that affect your final solution?
- Did you test your solution? What did you learn from the results of these test?
- A skill I learned/grew from this process is....
- What role has your mentored played over the past few months and what have you learned from them?
- Reflect on how you feel as we approach the finish line.

First Message

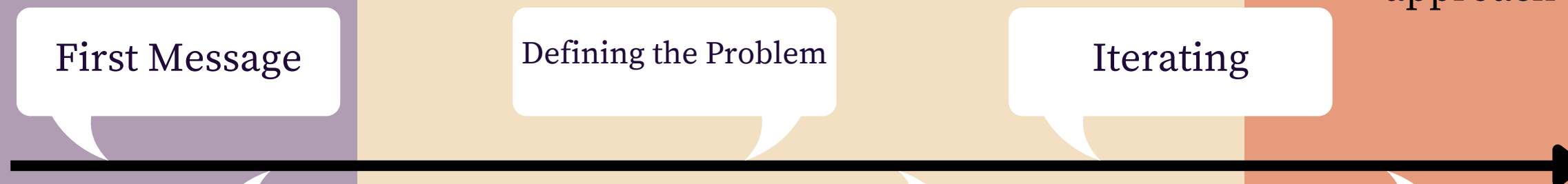
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# Finalize...

## CHECK IT OUT...

- Example
- Template

First Message

Defining the Problem

Iterating

Research

Narrowing in  
on solution

Finalizing



# Students' turn

## SHARE...

- Share With Students
- Post on MME for Mentor

First Message

Defining the Problem

Iterating

Research

Narrowing in  
on solution

Finalizing



# TAKEAWAYS

- **Manage tasks and progress**
- **Consistency and Communication**
- **Make this your own**

# ACTIVITY

- Resource Alert! Investigate Resources
  - Template
  - Example Schedule
  - Schedule Template
- Think about what might work best for your classroom
- Take some time now!

# LET'S HERE FROM YOU

- Resource Alert! Investigate Resources
  - Template
  - Example Schedule
  - Schedule Template
- **What might work best for your classroom?**

Questions...





Return at 1:00 for the *Meet the Mentors Session*

