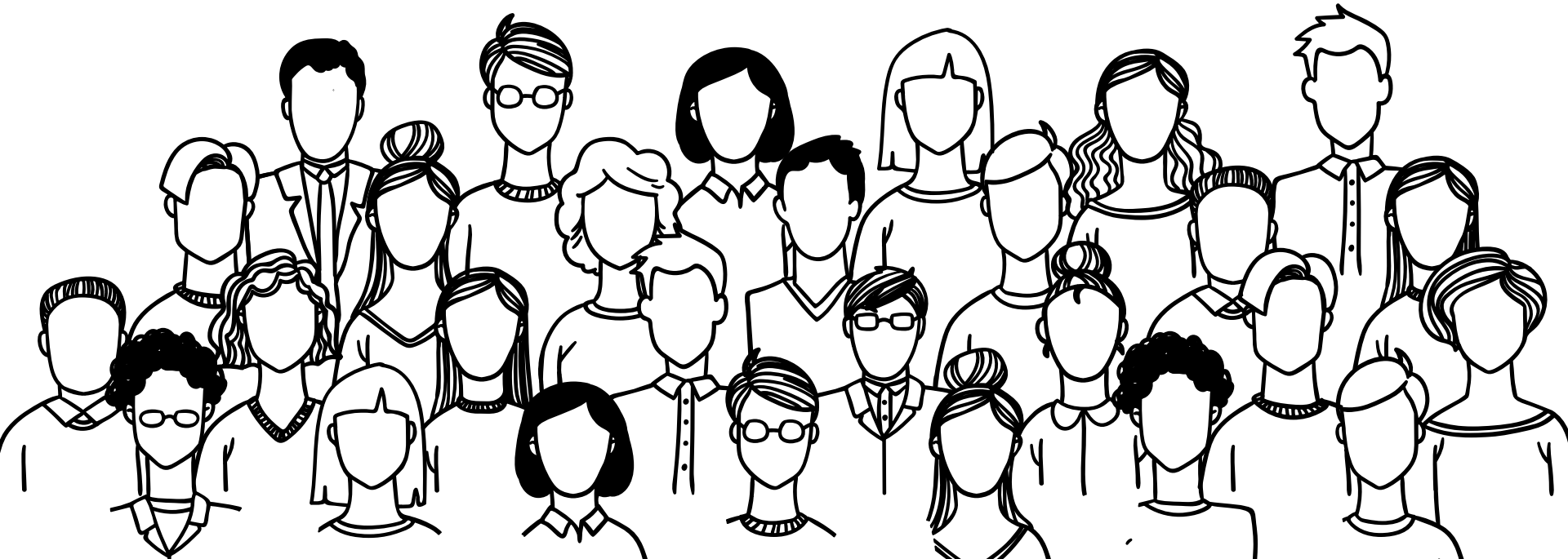
STEM and the Collaboration Process

By Jesiah Jeffers



The PD Plan

Goals

- Give a practical way for teachers in our building to collaborate
- Use STEM as a way to collaborate cross-curricularly
- Give time for teachers to design a cross-curricular STEM lesson
- Give teachers STEM resources

Outline of PD

- Use the 5E lesson model as the template of the PD and as the template for teachers to create their lesson
- Engage/Explore: Teachers are put into groups and do an escape room with teachers from different departments
- Explain: Gather teachers and explain 5E model and give my presentation
- Elaborate: I provided many STEM resources by subject and gave time for teachers to explore them
- Evaluate: Teachers paired with a teacher from another department and designed a cross-curricular 5E lesson outline.

Resources

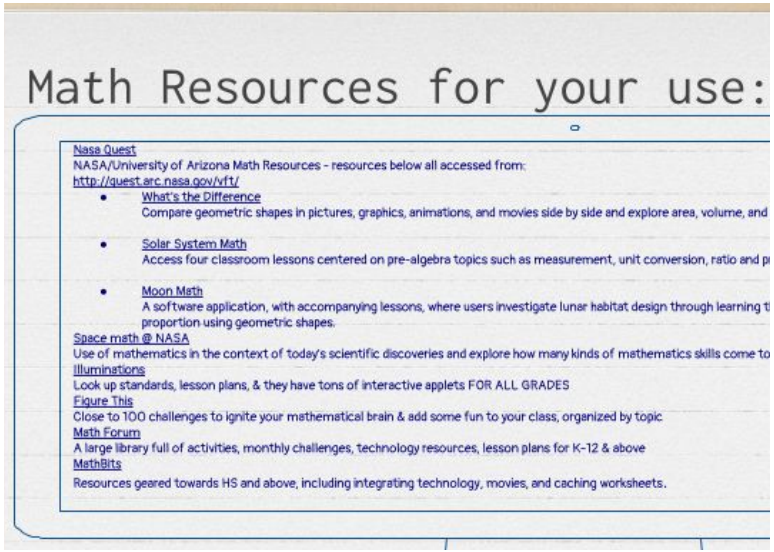
01

The 5E LESSON PLAN MODEL

5E Lesson Plan	
Engage The purpose for the ENGAGE stage is to pique student interest and get them personally involved in the lesson, while pre-assessing prior understanding.	
Explore The purpose for the EXPLORE stage is to get students involved in the topic; providing them with a chance to build their own understanding.	
Explain The purpose for the EXPLAIN stage is to provide students with an opportunity to communicate what they have learned so far and figure out what it means.	
Elaborate/Extend The purpose for the EXTEND stage is to allow students to use their new knowledge and continue to explore its implications.	
Evaluate The purpose for the EVALUATION stage is for both students and teachers to determine how much learning and understanding has taken place.	

02

STEM Resources by Subject



03

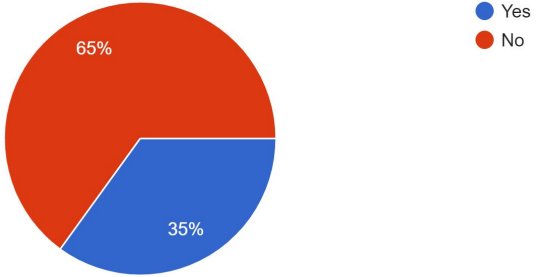
ESCAPE ROOM

Reflections

NASA

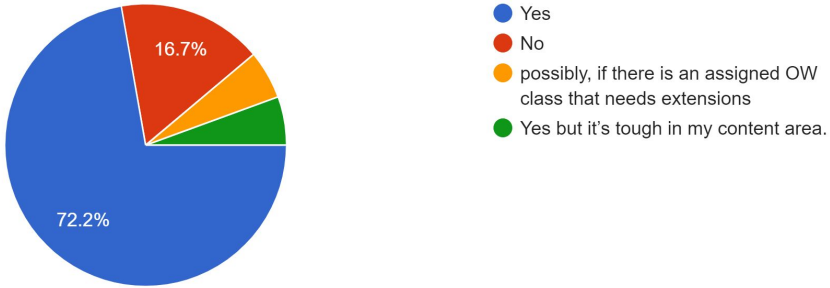
Are you aware of NASA lesson resources online?

20 responses



Are you interested in more resources?

18 responses



Overwhelmingly Positive

95% Will use what they created

Link to Voiceover