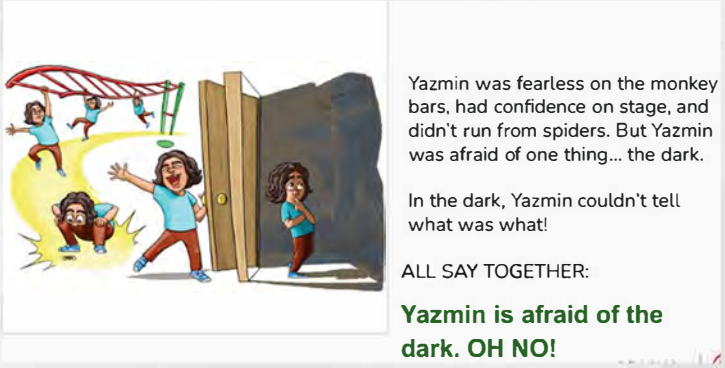
PROJECT BEES

Project Bees is a NSF DRK-12 (#2515930) three-year project with the goal of focusing on teachers' development of engineering practices, including how teachers support their students' development of engineering-focused behaviors and mindsets through instruction. Through the use of research-based engineering curriculum, Youth Engineering Solutions (YES.mos.org) and the use of Universal Design and Research Based Practice for Students with extensive support needs our research team is developing equity driven engineering education.

Repeated storylines were added to engineering stories to increase student engagement and comprehension of the content.



Yazmin was fearless on the monkey bars, had confidence on stage, and didn't run from spiders. But Yazmin was afraid of one thing... the dark.

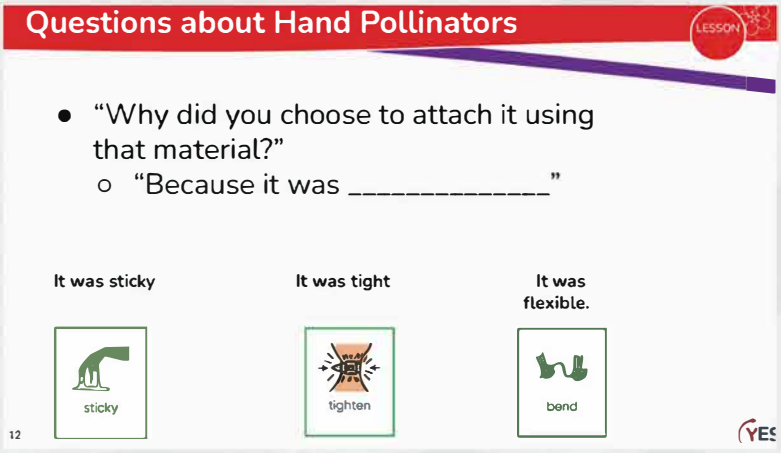
In the dark, Yazmin couldn't tell what was what!

ALL SAY TOGETHER:

Yazmin is afraid of the dark. OH NO!

Response boards were provided to increase participation and open-ended thinking.

Answer options with picture symbols were added to power point slides to provide student response options.



This is a collaboration between The University of Texas at Arlington, the University of Louisville, the Museum of Science – Boston and the National Science Foundation, Project Bees is a NSF DRK-12 (#2201407) three-year project with the goal of focusing on teachers' development of engineering practices, including how teachers support their students' development of engineering-focused behaviors and mindsets through instruction.

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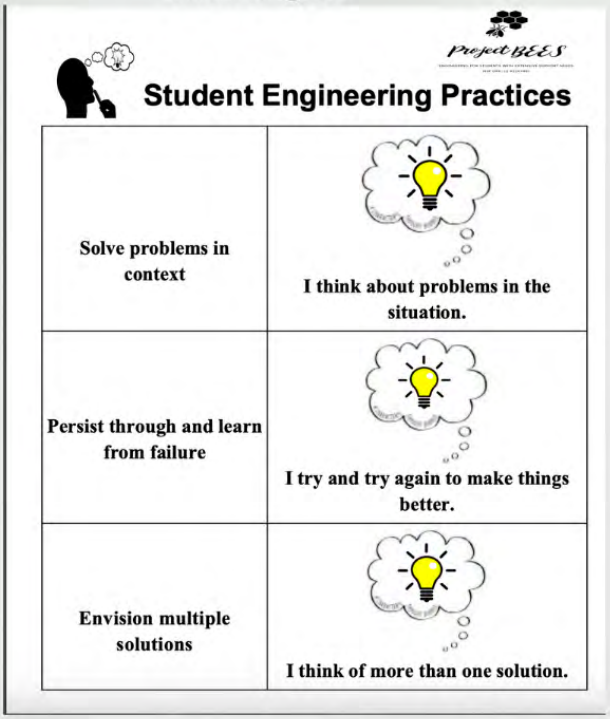
Focused on targeted engineering habits of mind defined in student-friendly language. Practices are embedded into lessons and modeled and prompted during design challenges.



Digital choice boards were provided for students to enhance engagement within the engineering design process.

Project Bees (2024). Project highlights and materials handout. https://stemspecial-ed.com/project-bees/