



Fraction Ball: The Femeineers

Description

These resources are provided as an example of the Inclusive Development Key Action of “Developers present options and trade-offs for decisions to the community for decision-making.”

The selected slides highlight the Femeineers, a group of female students who were part of an after school program in a school at Santa Ana Unified School District (SAUSD), who wanted to create a version of Fraction Ball that was more accessible to all learners. The Femeineers’ conceptualization and development of *Bottle Cap Bonanza* represents an instance where the Fraction Ball team leveraged the brilliance and creativity of their student co-designers to figure out a way to expand Fraction Ball beyond the basketball court, an environment where some students may not feel their most comfortable or empowered, to a table-top version accessible to students in the classroom setting.

The article from the University of California, Irvine (UCI) School of Education tells the broader story of Fraction Ball and how the Femeineers’ development of *Bottle Cap Bonanza* contributes to that story.

Both resources highlight the power of Inclusive R&D with students as designers who transformed the Fraction Ball approach. Please find the slides below. You may access the accompanying article here: https://education.uci.edu/fraction_ball.html.

Acknowledgements:

- William Rayment (teacher at Santa Ana Unified School District)
- Kreshnik Begolli
- Siling Guo
- Lourdes M. Acevedo-Farag
- Giovanni Sanchez
- Xiangqian Yu
- Yoori Kim
- Milan Vu
- Laura Hernandez
- June Ahn
- Drew Bailey
- Andres S. Bustamante
- Katherine Rhodes
- Lindsey Richland

This Resource is part of EF+Math’s Inclusive R&D Toolkit. It was last updated on 10.2025. To access the complete toolkit and other resources, visit www.efmathprogram.org.