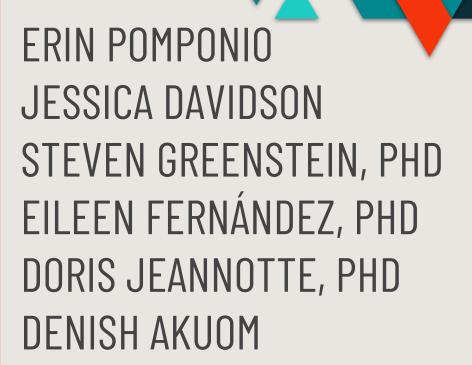


THE TEAM











The role of the teacher is to create the conditions for invention rather than provide ready-made knowledge.

— Seymour Papert —

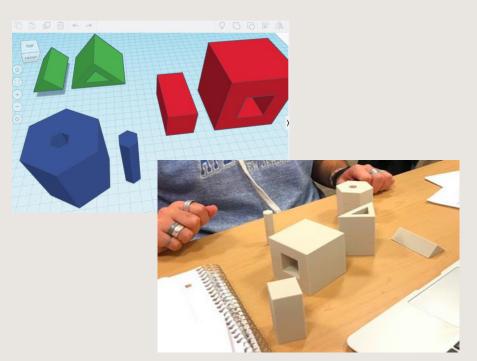
We set out to incorporate a **Making experience** into a content course offered to prospective and practicing elementary mathematics teachers (PMTs).

We asked...

"What learning opportunities can we offer to reform teachers' thinking?"

THE TASK

The PMTs were tasked with digitally designing, 3D printing, and sharing an original manipulative with a child to support their learning of mathematics.







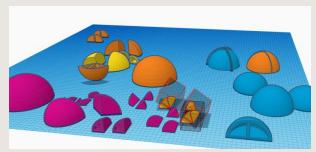
OUR STORIES

What was it about the culture of the Maker environment – and the knowledge and experiences of PMTs who worked within it – that interacted with and informed their designs and pedagogy?











ERIN'S STORY:

The Fraction Orange



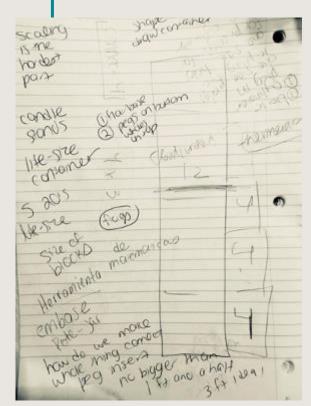
Create opportunities for:

Self-expression

Sharing



JESSICA'S STORY: No Más Caídas





Embrace
Learning as
an Iterative
Process





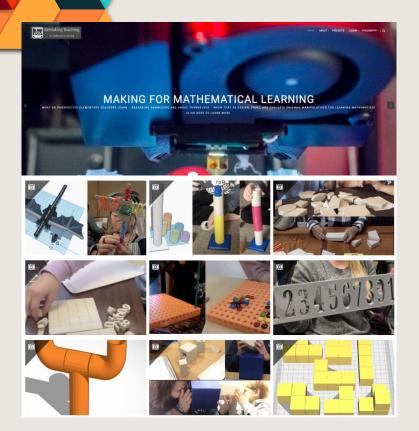


BEST PRACTICES

- create opportunities for selfexpression and sharing
- embrace learning as an iterative process
- focus on human/learnercentered design
- support collaborative and participatory practices
- humanize the learning process







THANK YOU!

Please visit us at our website:

http://teachermakers.montclair.edu/

Contact us:

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