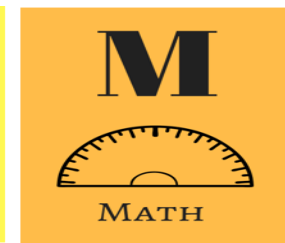
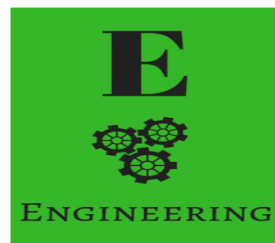
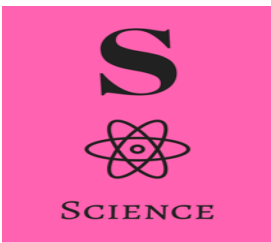


Kids' STEM Workshops on a Budget!



Emily Zorea
Ithaca School District Librarian

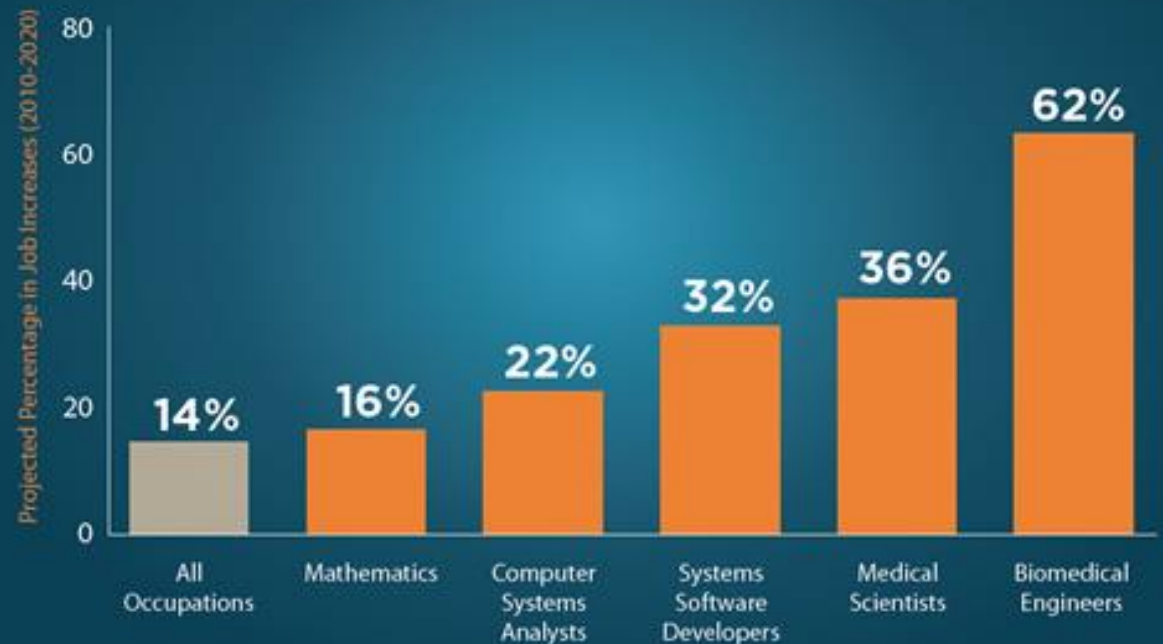


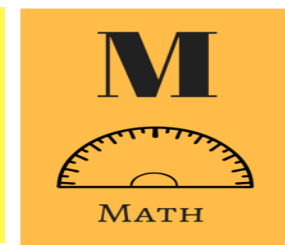
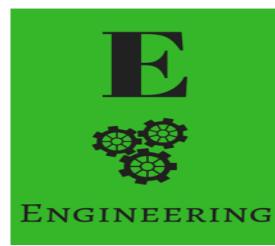
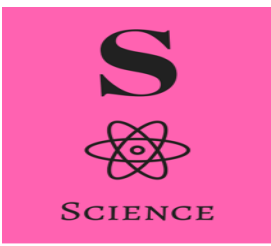


STEM and Our Future



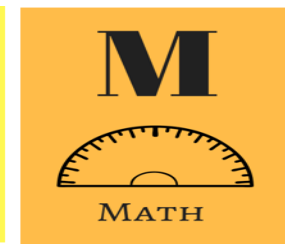
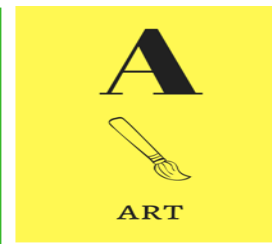
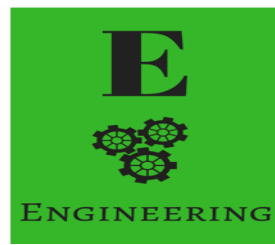
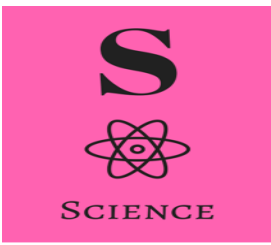
PROJECTED PERCENTAGE INCREASES IN STEM JOBS: 2010-2020





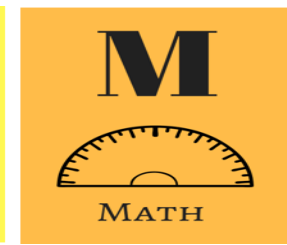
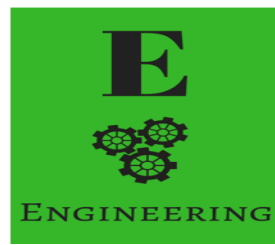
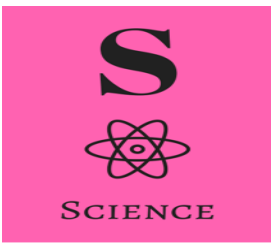
STEM as a Community Education



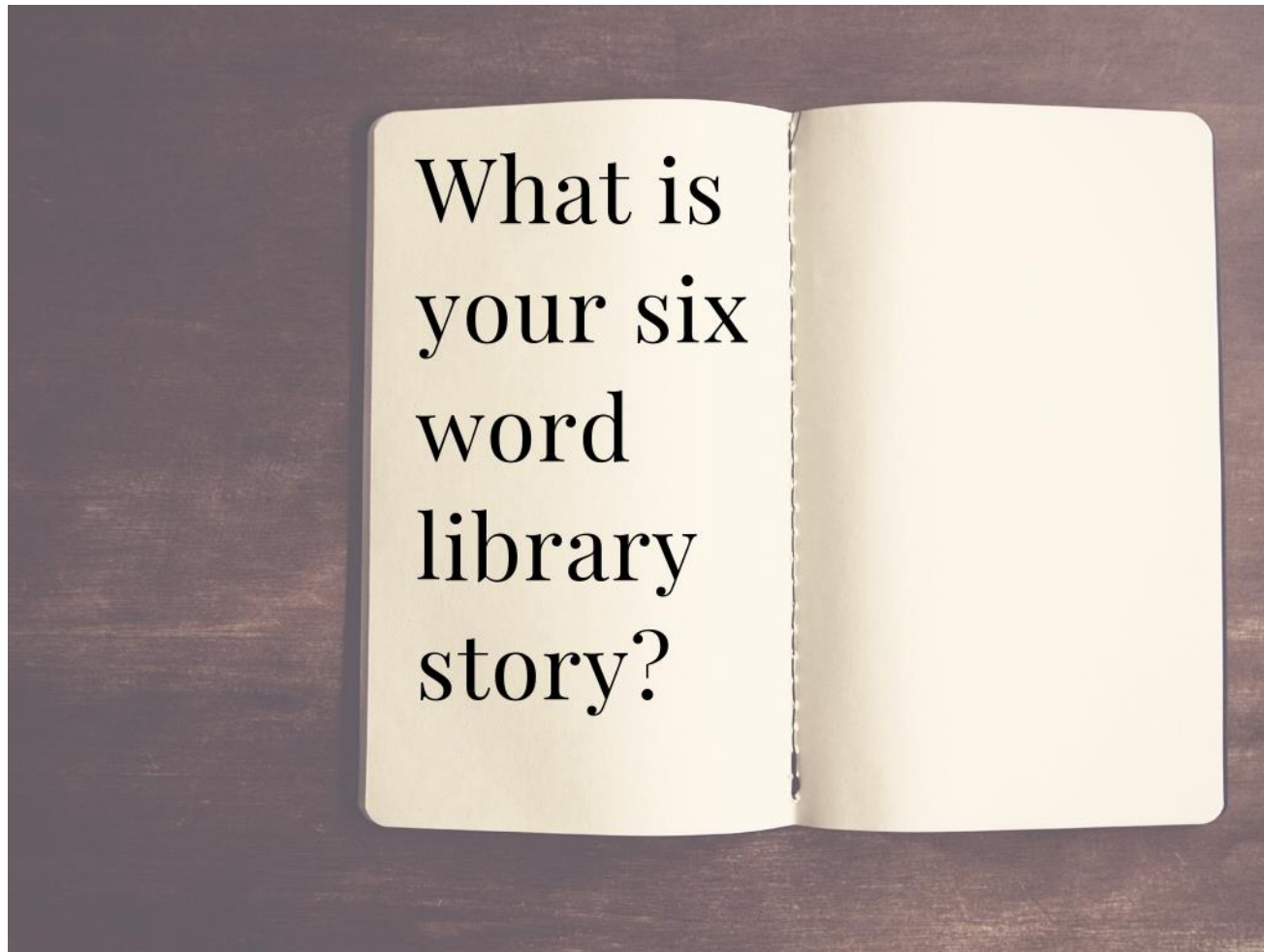


A Year of Kids' STEM Workshops





What is your Six Word Library Story?



SOWING SEEDS LIBRARIAN

Providing Youth Access to Ideas through their Public Library

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Kids' STEM Workshop: Binary Code!

March 17, 2017 - [Leave a comment](#)



We live in a binary world. Our computers, music, books, magazines, almost every form of media is digital and it all runs on the binary code. But, it is surprising how little many of us understand about the code that influences so much of our lives. For Teen Tech Week in March 2017, I wanted to do a program for tweens on coding and showing them the binary system. But, is binary code easy enough for kids to understand and write? Can we do a coding program without a computer? As we found out, the answers are yes, and yes!

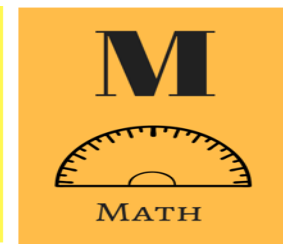
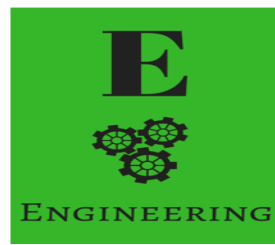
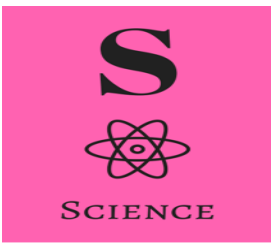
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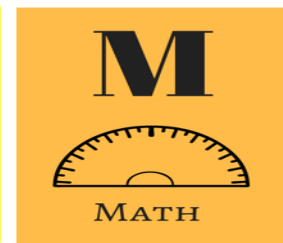
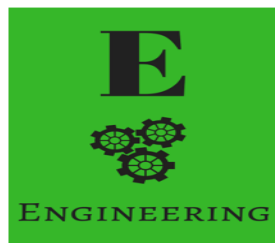
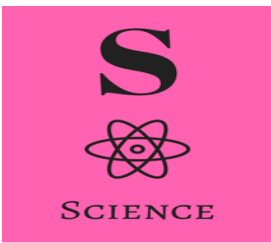
Connect On Social Media

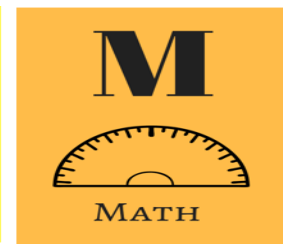
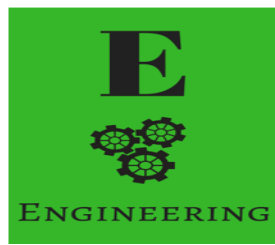
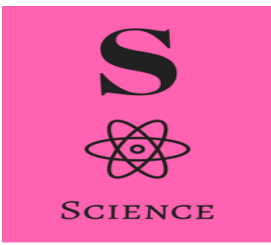




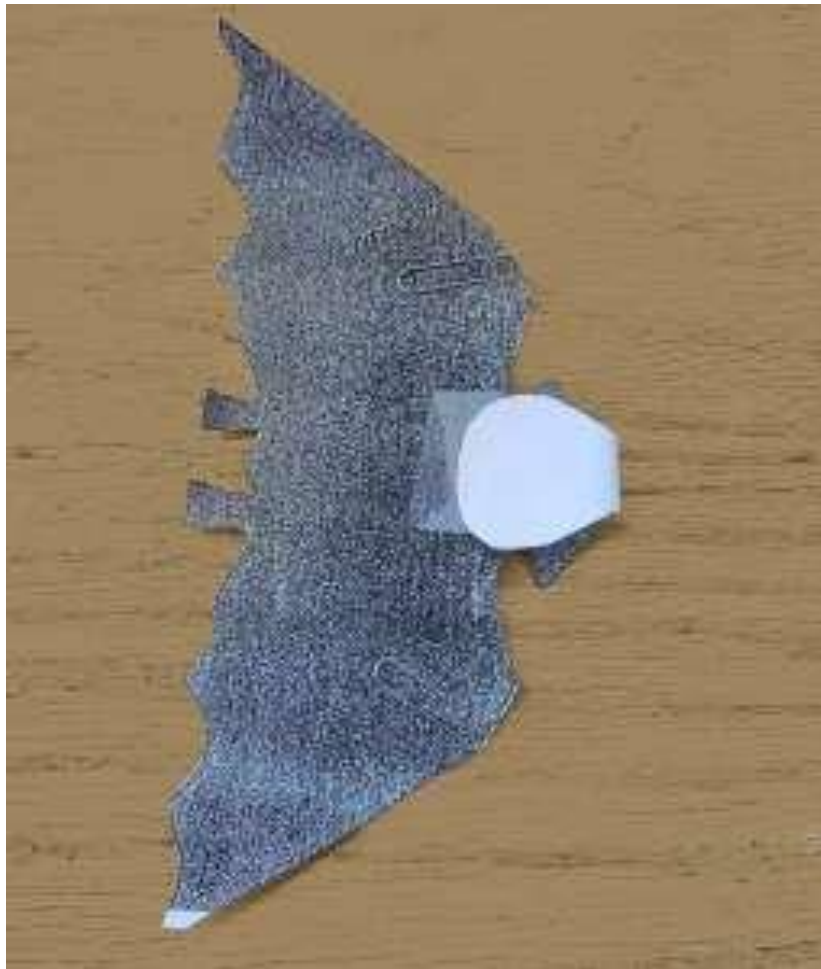
Bridge Engineering with Newspaper

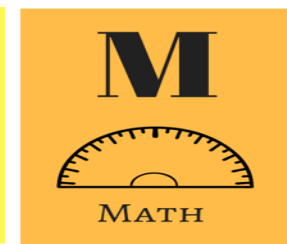
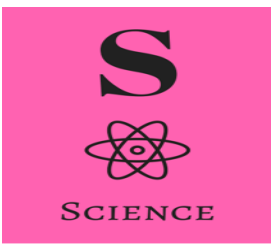






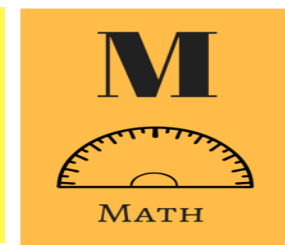
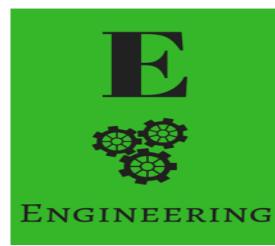
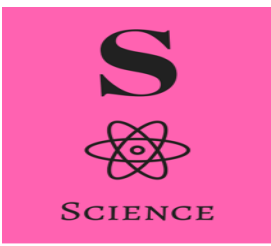
Bats in Flight





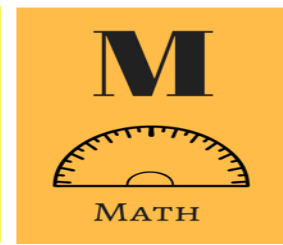
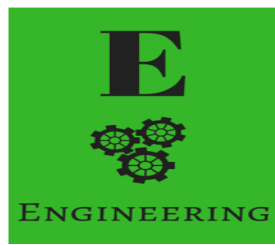
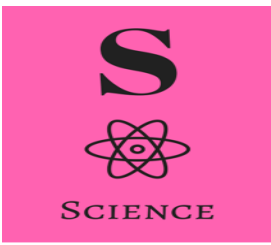
Binary Code





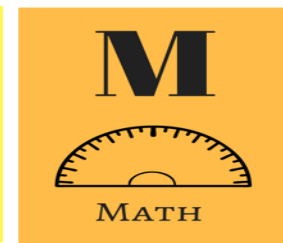
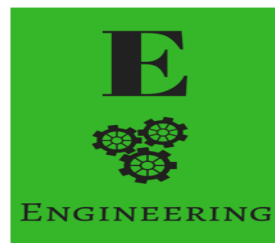
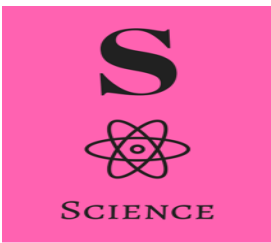
Bridge or Tower Building **with Clothes Pins and Tongue Depressors**





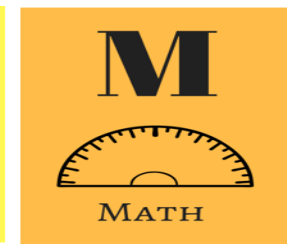
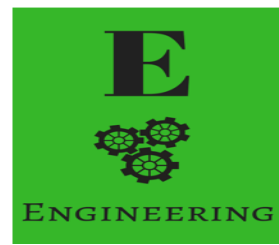
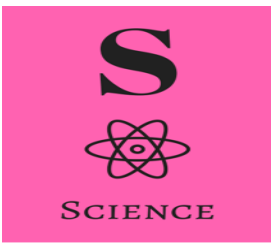
Float or Won't-Boat Building

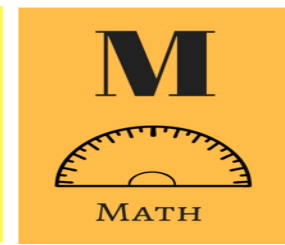
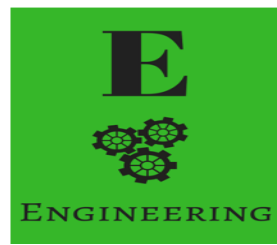
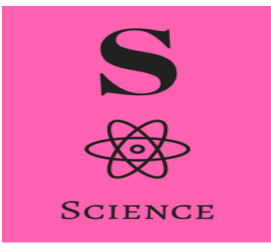




Catapults

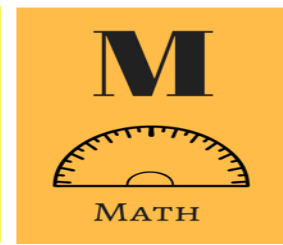
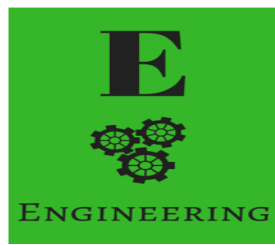
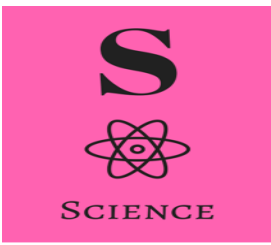






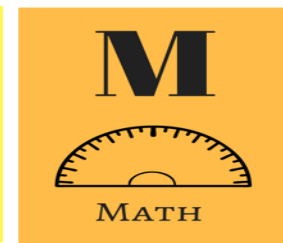
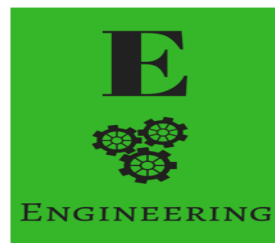
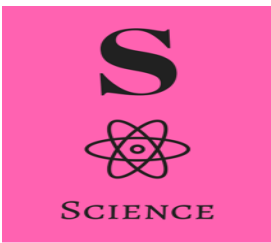
Marble Maze-Push and Pull Physics





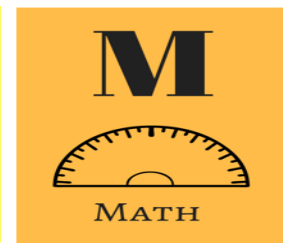
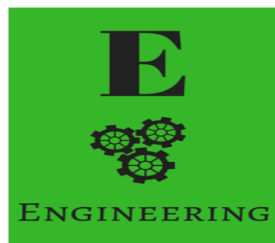
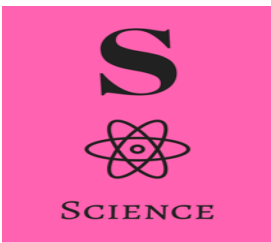
Marshmallow Igloos





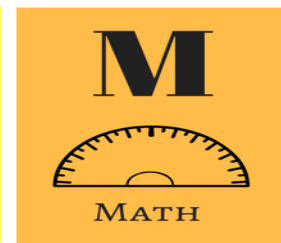
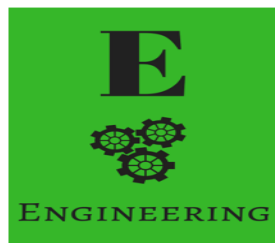
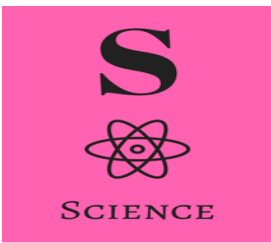
Straw Towers






Toilet Paper Mummies








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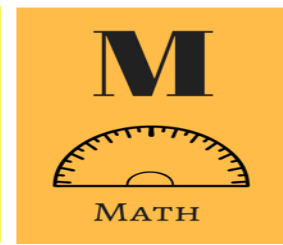
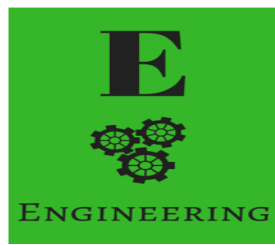
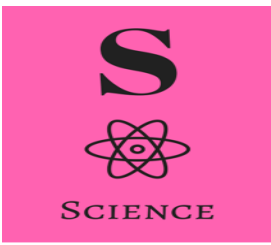
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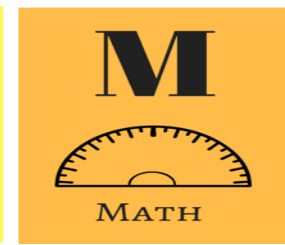
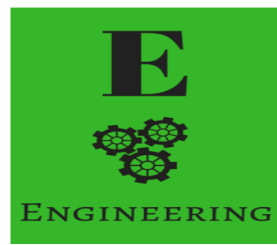
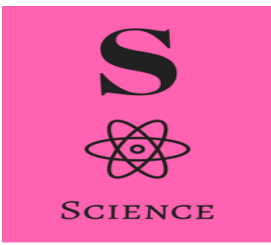
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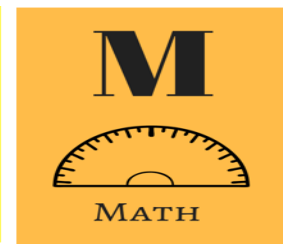
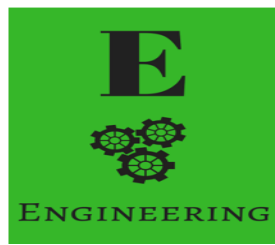
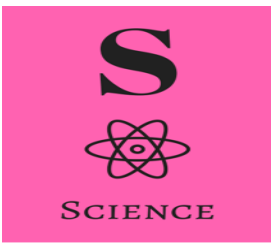
STEM Planning Resources

- StarNet-Science-Technology Resources for Libraries
- Show Me Librarian Blog
- Pinterest



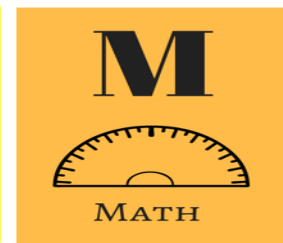
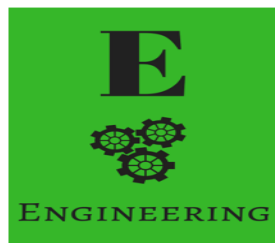
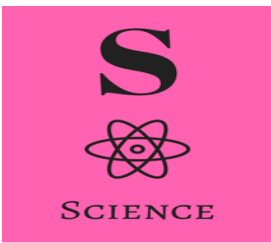
Grants:





STEM in your Community

What do Kids' STEM
Workshops look like in
your community?



Let's keep good ideas circulating!
Please share your STEAM ideas with me! 😊



Emily Zorea

emily.zorea@ithaca.k12.wi.us

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