

Middle School S.T.E.M. Experiences

Engaged Learners
Collaborative Educators
Innovative Experiences

What cool and exciting opportunities are our students enjoying in the STEM Exploratory class at Geneva Middle Schools?

How do our awesome educators work to enhance learning and engage students in Geneva 304?



Engaged Learners

Collaborative Educators

Innovative Experiences

Case
Study

Background: Middle School Exploratory

Philosophy:

- Vision Focused:



- Provide students with the opportunity to ‘explore’
 - Preparation for Life and Future ‘Pathways’
-

Background: Middle School Exploratory

Art

Careers and Entrepreneurship

Family and Consumer Science (FACS)

Music

Technology Education

World Languages

Introductions:

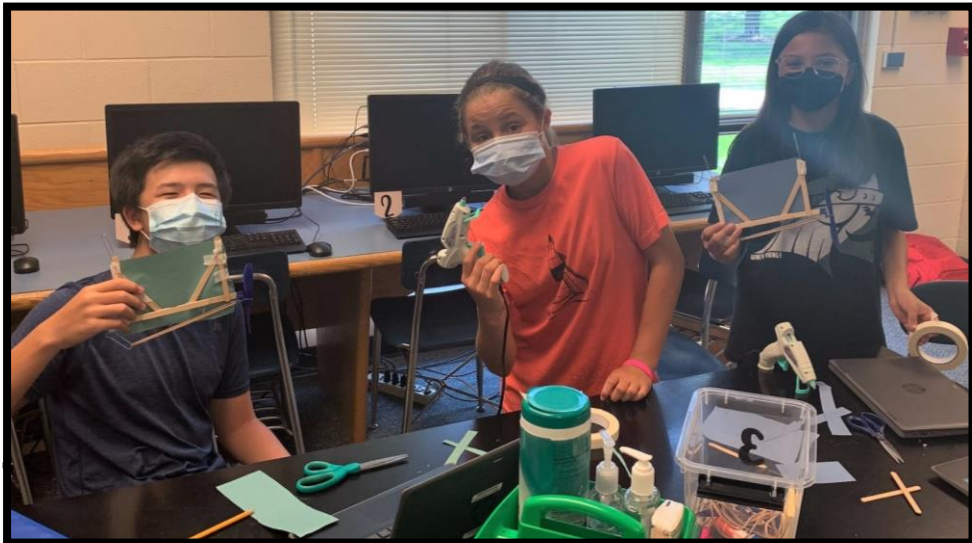
Stephanie Crum: GMSS

Tushar Nakum: GMSN

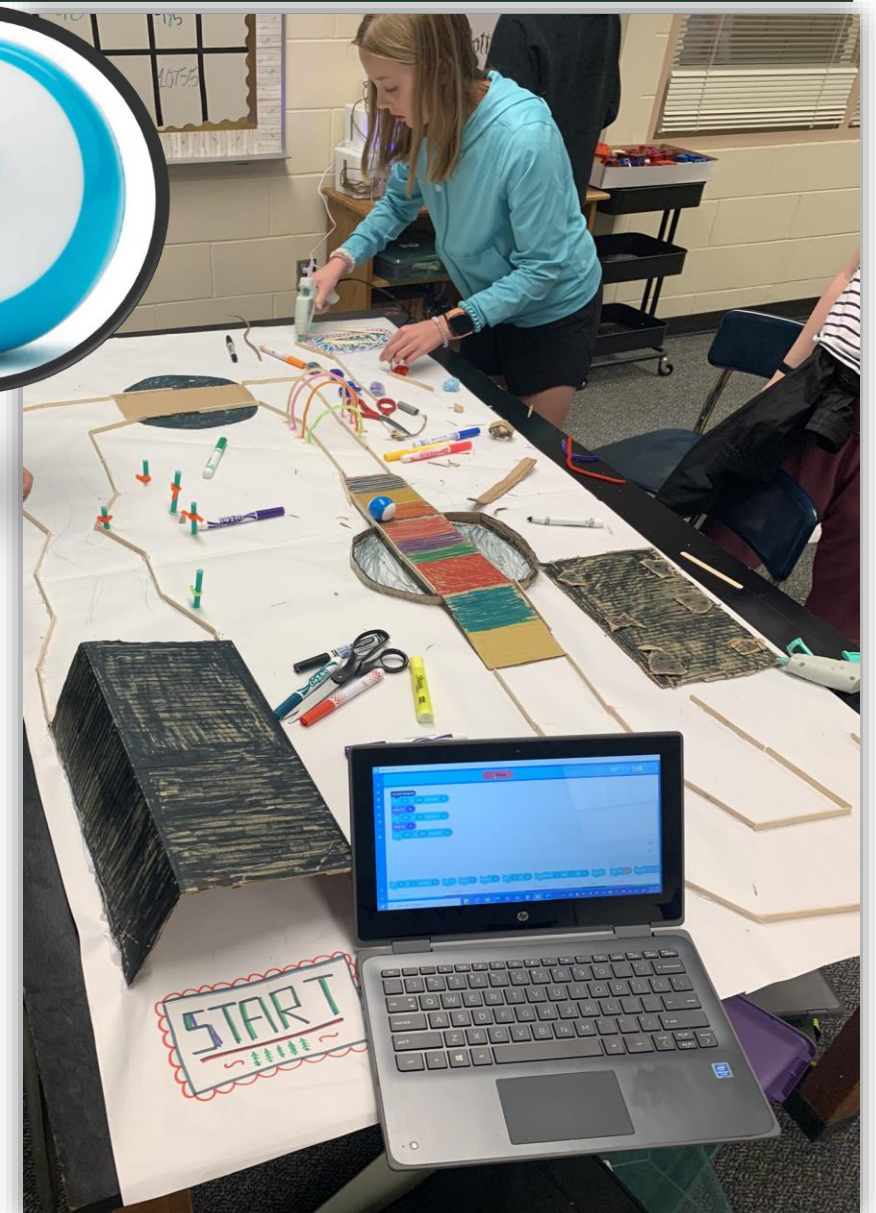
STEM: *Creating the excitement to learn*



- Zipline Racers
- Air Skimmers
- Puzzle Cube
- 3D printing challenges using Tinkercad
- Sphero Robots
- Cooperative STEM Challenges & more!



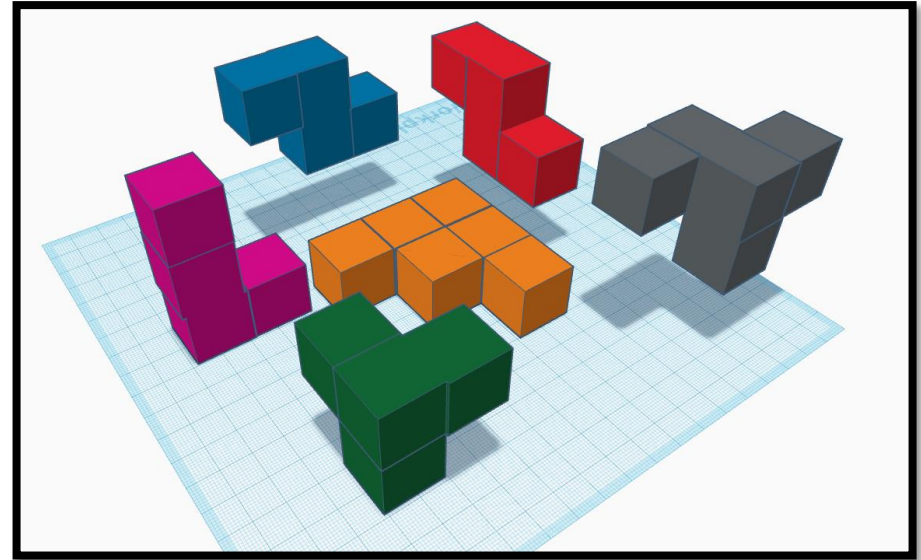
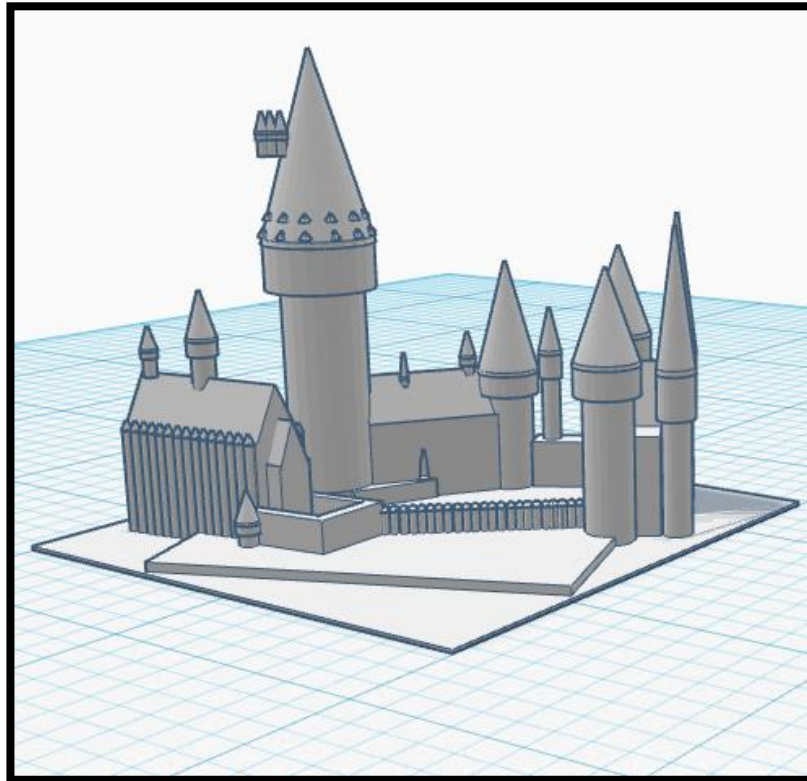
STEM Challenges: Implementing the Engineering Design Process





STEM Challenges: Community Connections & 3D Printing

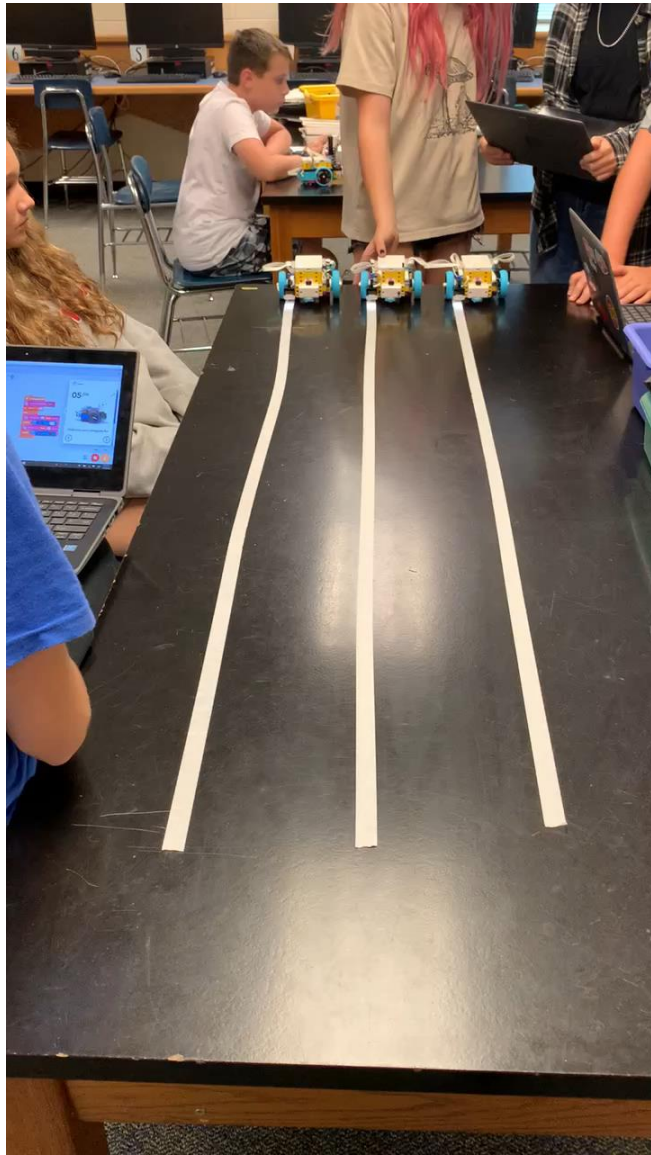
Design-A-Cookie
Cutter: Winners
chosen by Hey Sugar



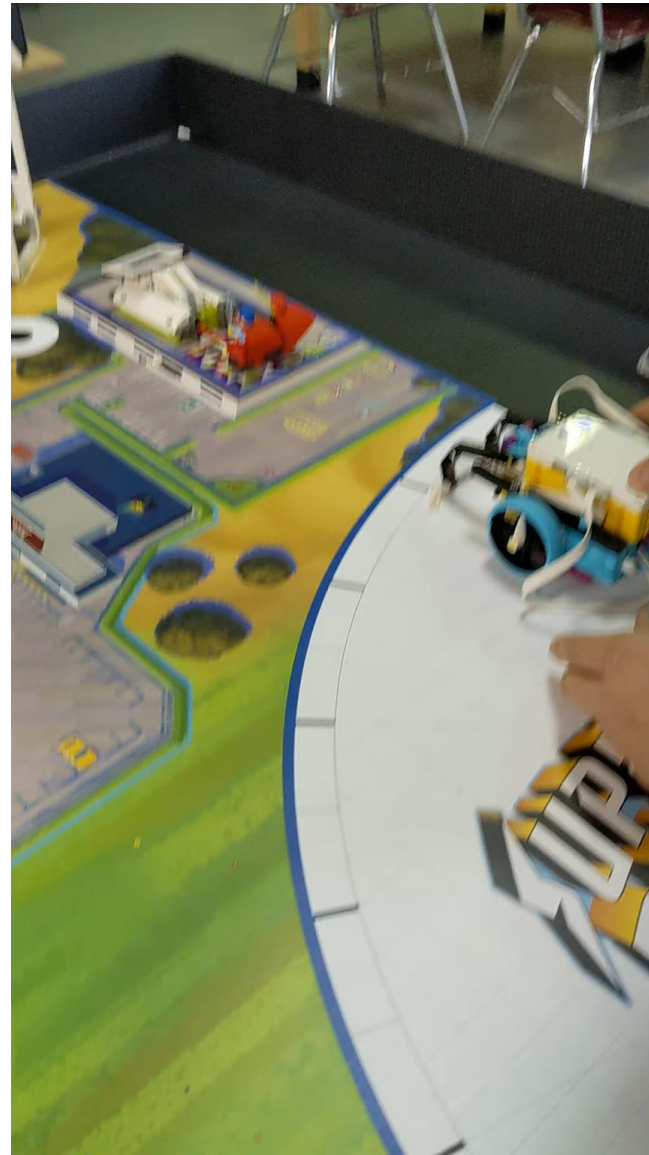
Hey Mrs. Crum!

I just had my FLL competition last week at mount prospect for qualifiers. It was a great experience, and the results are online for my team's table run. We are 2XStream Robotics. Thankfully we made it to state, and I am super excited for that upcoming experience. I was emailing you to tell you I appreciate your love for sharing STEAM and engineering projects! Have a great rest of your day and happy holidays!

Thank you,

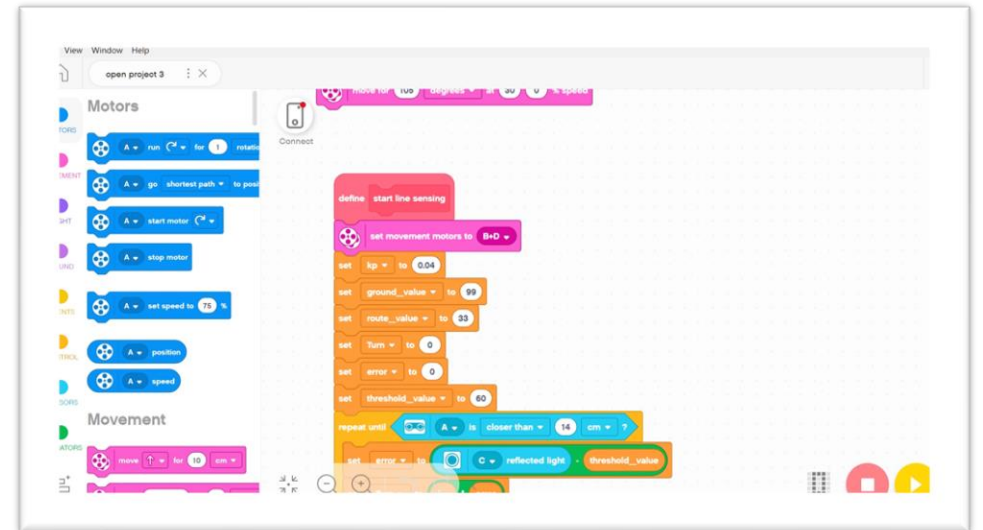


“Training Camp”



Mission Practice

Lego Robotics

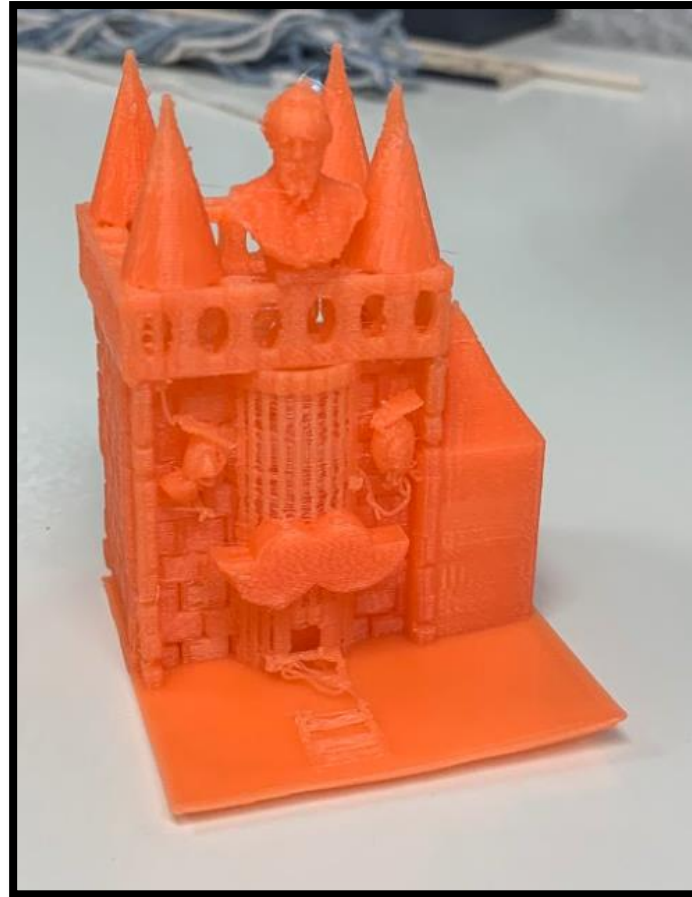


Lego Robotics

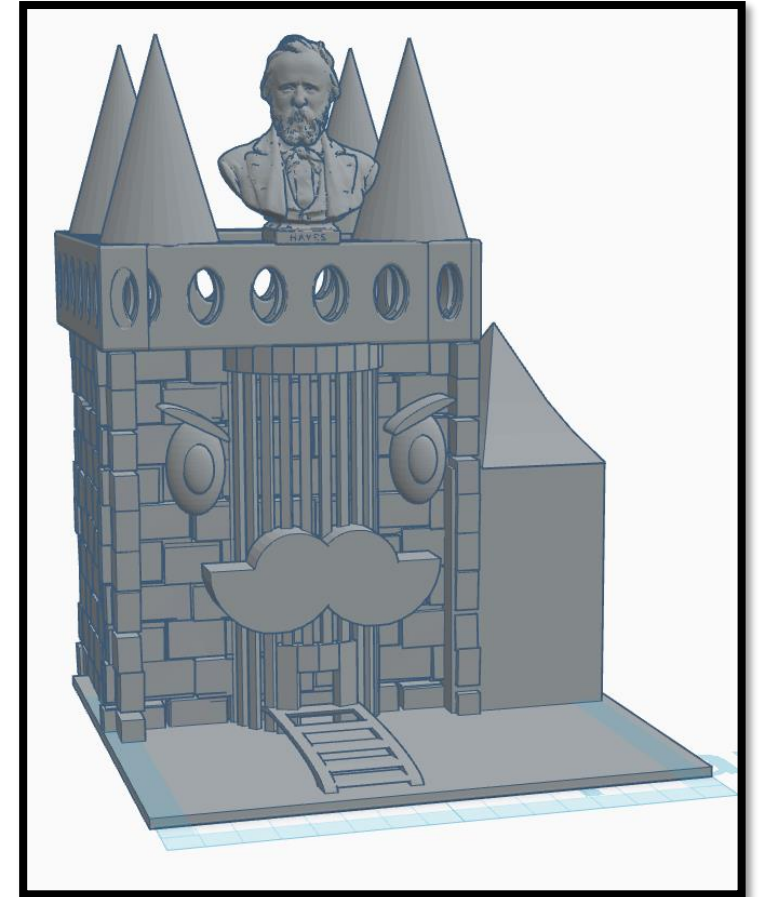


Continued Learning...

- Critical thinking skills
- Application to real-world scenarios
- Interest in highly equitable future careers
- Deep cross curricular connections
- Learning through hands-on FUN!



3D Printed



CAD using Tinkercad in class

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