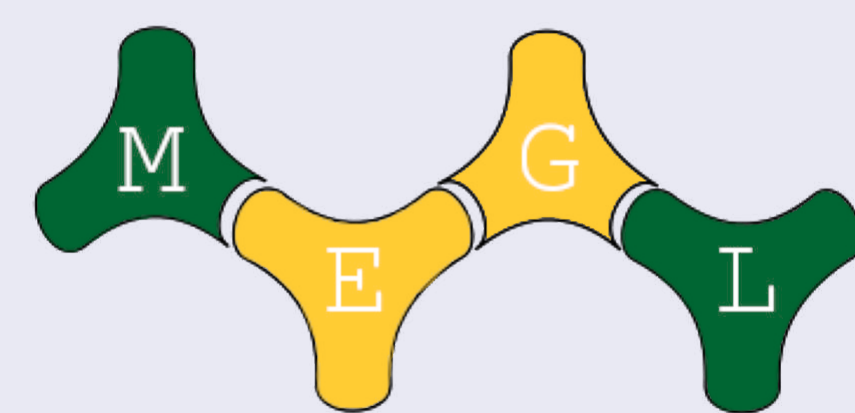


# Fall 2022 Outreach Team

Martha Hartt, Jo Ro, Aidan Self, Merold Saffa, Salina Tecle



Mason Experimental Geometry Lab



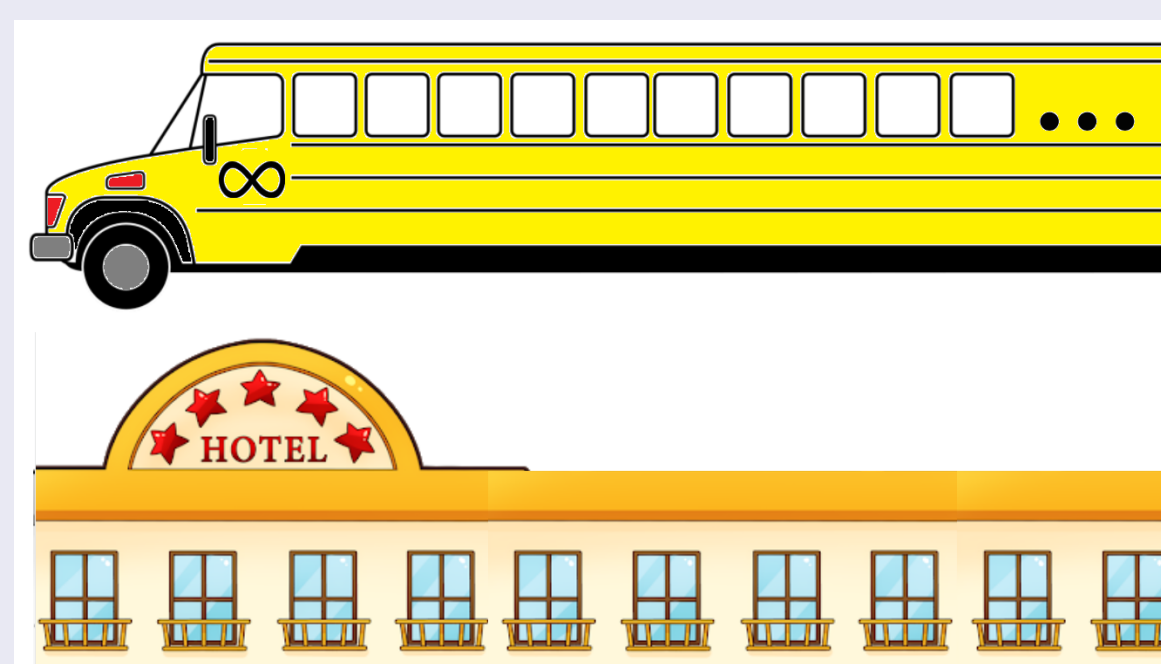
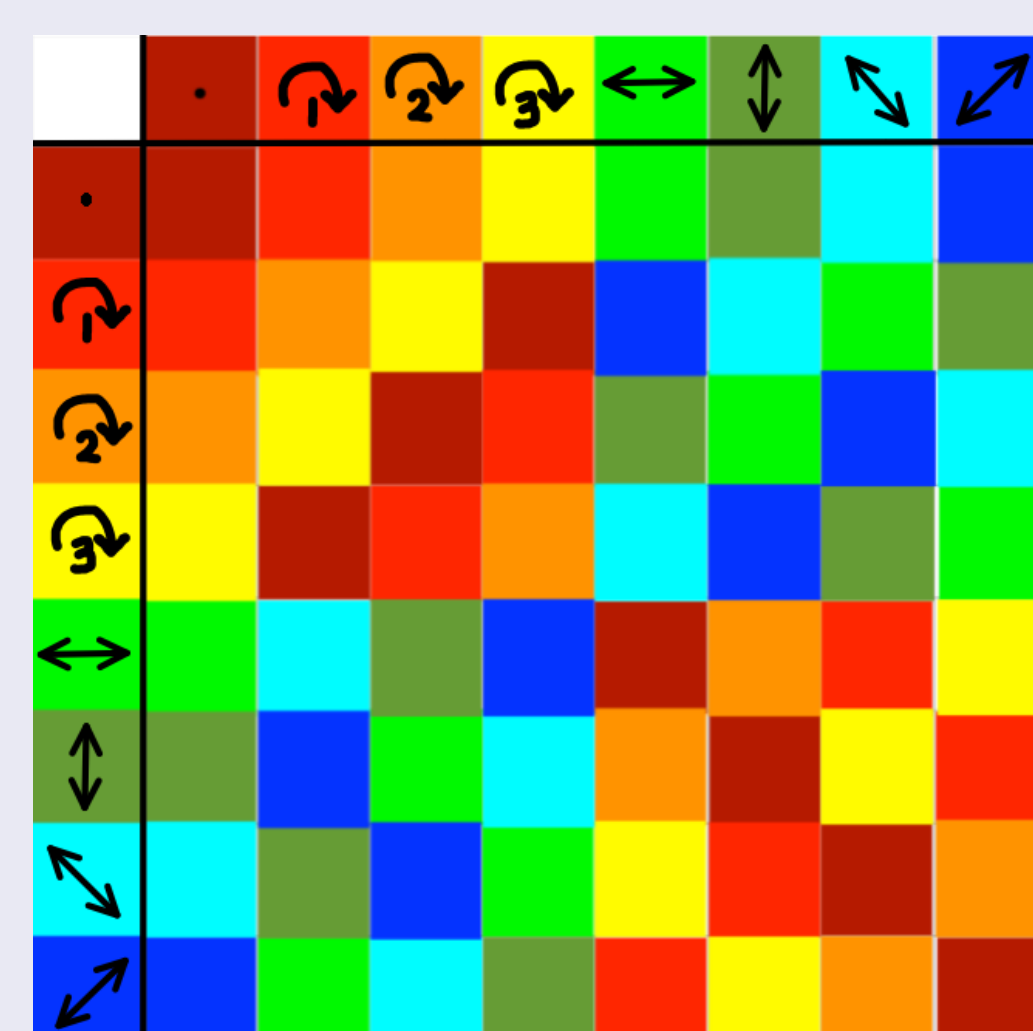
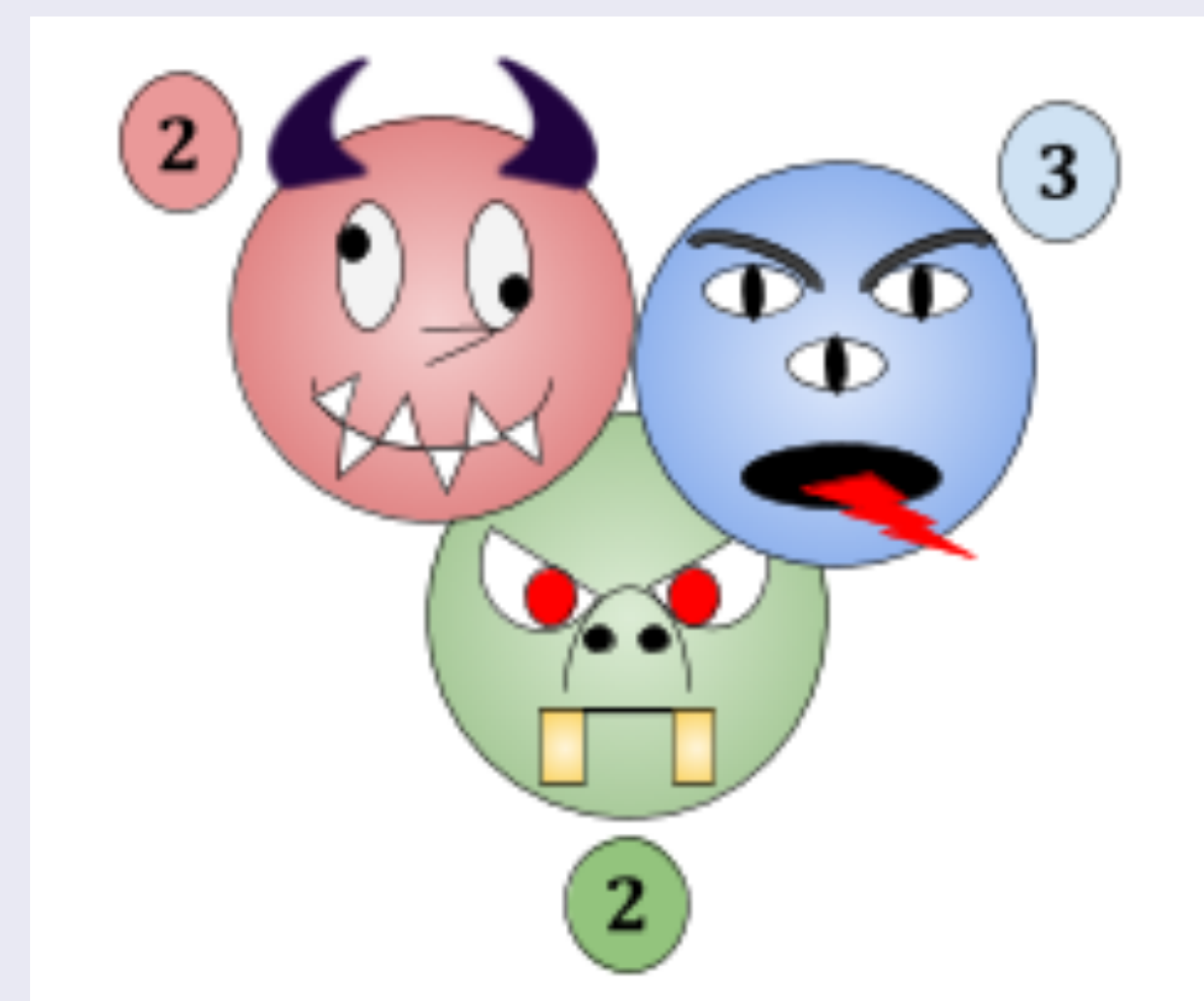
Dec 2, 2022

## Introduction

This semester we kept it going without a faculty member as the outreach director, we began developing new activities, we reached over 600 kids, and we reached 1 new school.

## Activities

- You Can Count on Monsters
  - Prime factorization
- Really BIG Numbers
  - Linear, polynomial, exponential, and factorial growth
- Your Teachers are Lying to You
  - Context matters in mathematics
- Playground of the Infinite
  - Hilbert's infinite hotel
- Snowflake Symmetry
  - Group theory
- Hyperbolic Crochet
  - Hyperbolic geometry
- Irrational Thinking
  - Irrational numbers



## Accomplishments

### Expanded Our Community

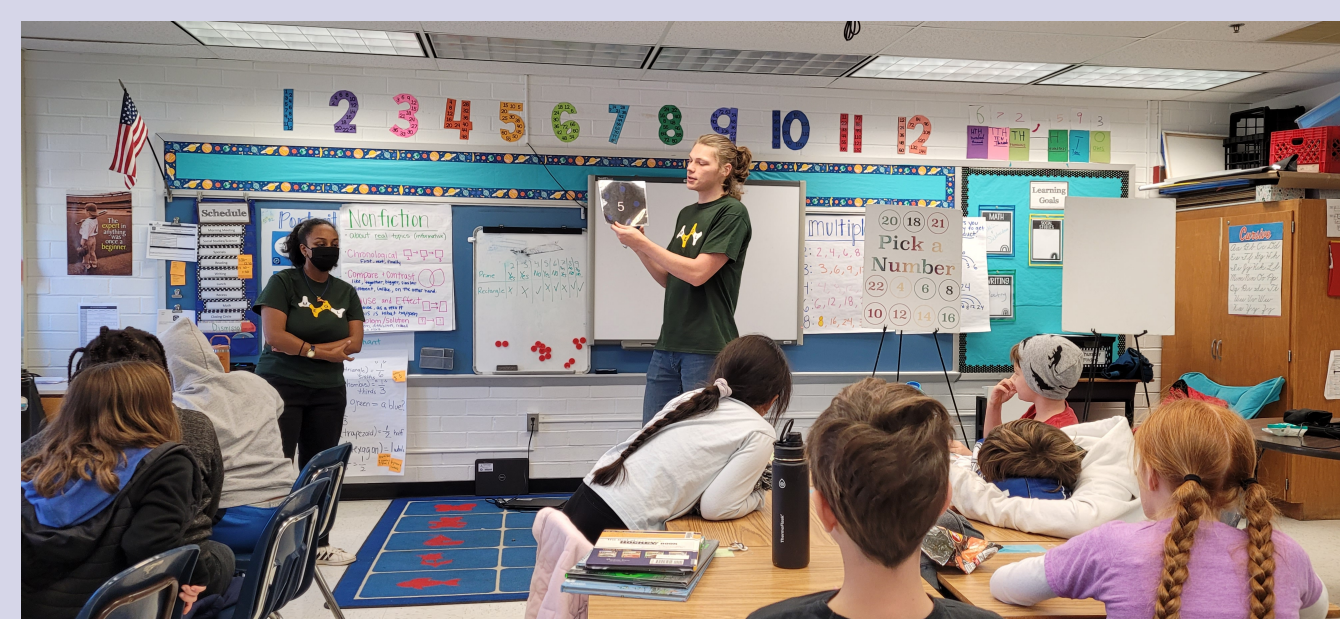
- Students reached this semester:
  - 639 Students!
  - Reached all 2nd, 3rd, and 5th grade classrooms at Greenbriar East
  - Reached all 4th graders at a new school, Shrevewood elementary



We have now reached 10,711 students since MEGL began!

## Certification Training

- We have trained several new undergraduates on Monsters
- We've trained Aidan on Really Big Numbers and Jo on Irrational Thinking
- We have graduate students training undergraduates without faculty having to be involved.



## Photos



## Future Goals

- Reach more students and target more secondary school students
- Create more follow-up lessons
- Find ways to make the booking process more efficient
- Improve user experience and functionality of the website
- Encourage more students to take part in MEGL Outreach

## Potential New Activity Themes

- Tilings of the plane
- Quantum Computing
- Game Theory

## More Pictures



## New Activity for New Age Group

We have been working on developing an activity for grades K-1 related to Classifying Shapes, Tiling the Plane, and Coloring Maps!

