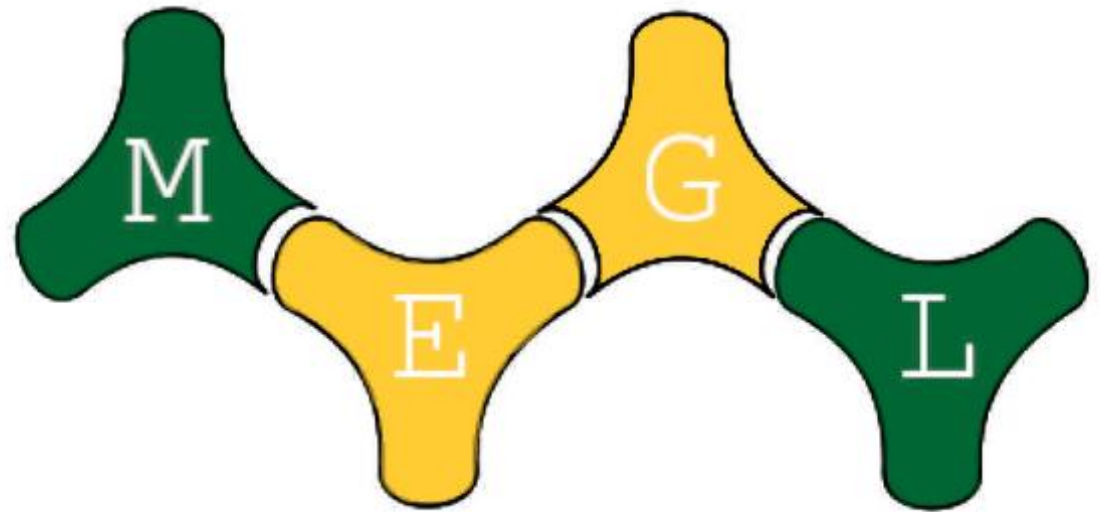


# MEGL Outreach Spring 2025

Oluwatomisin Badmus, Mark Dubynskyi,  
Khang Ly, Joanne Romo

Dr. Ros Toala, Tim Banks



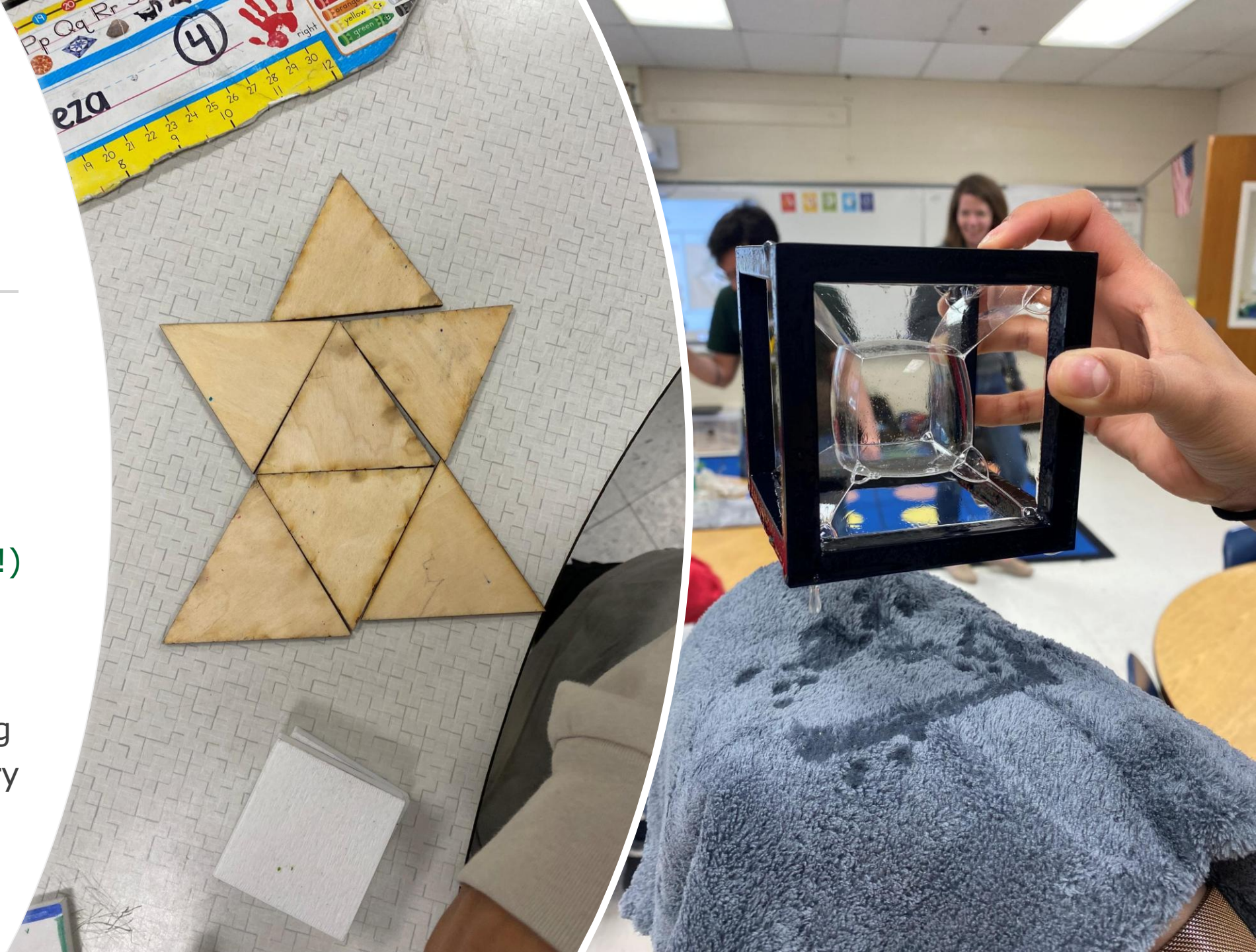


**The Team!**



# Activities

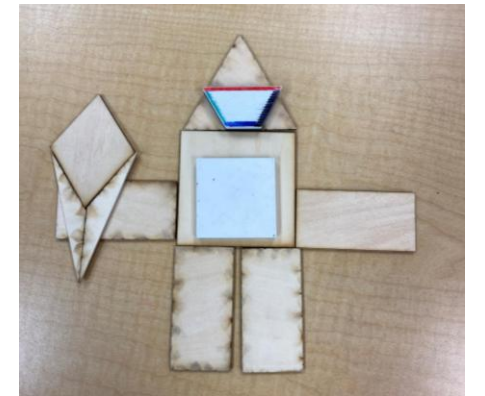
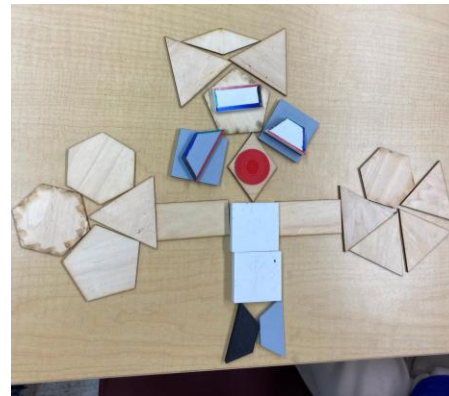
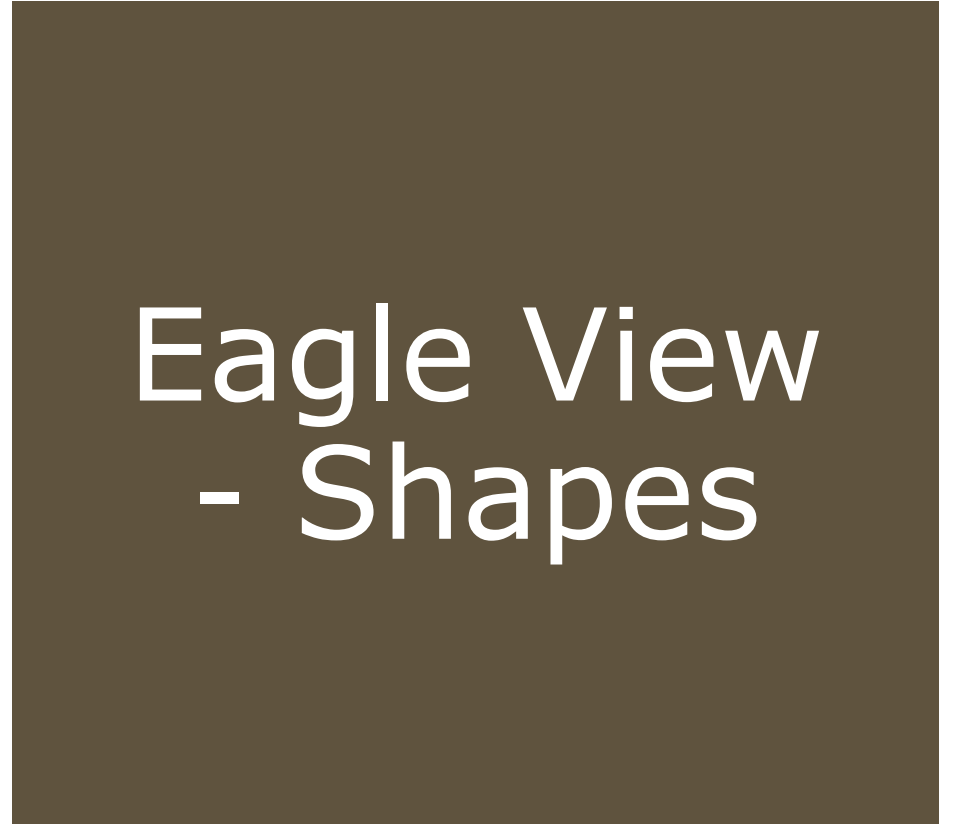
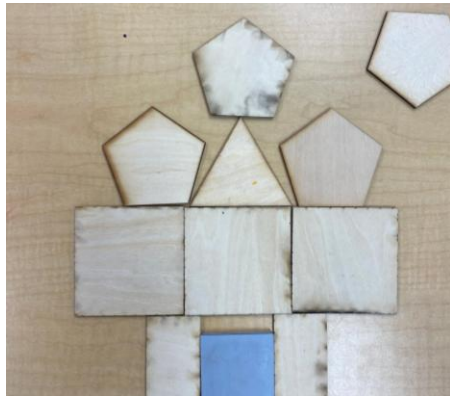
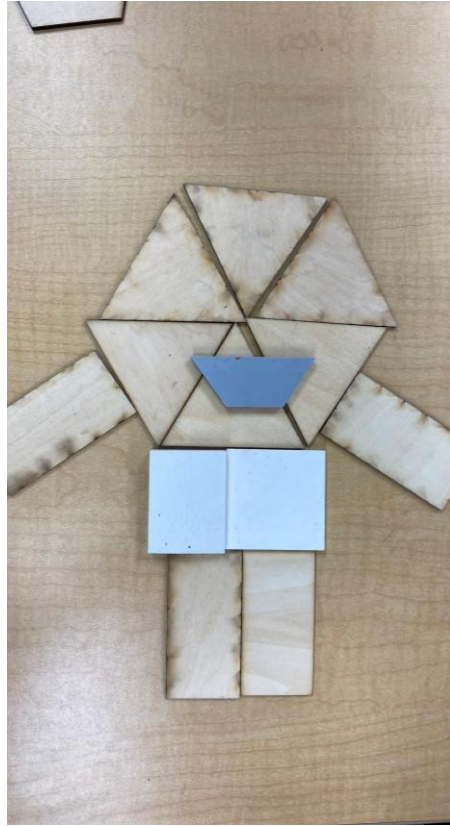
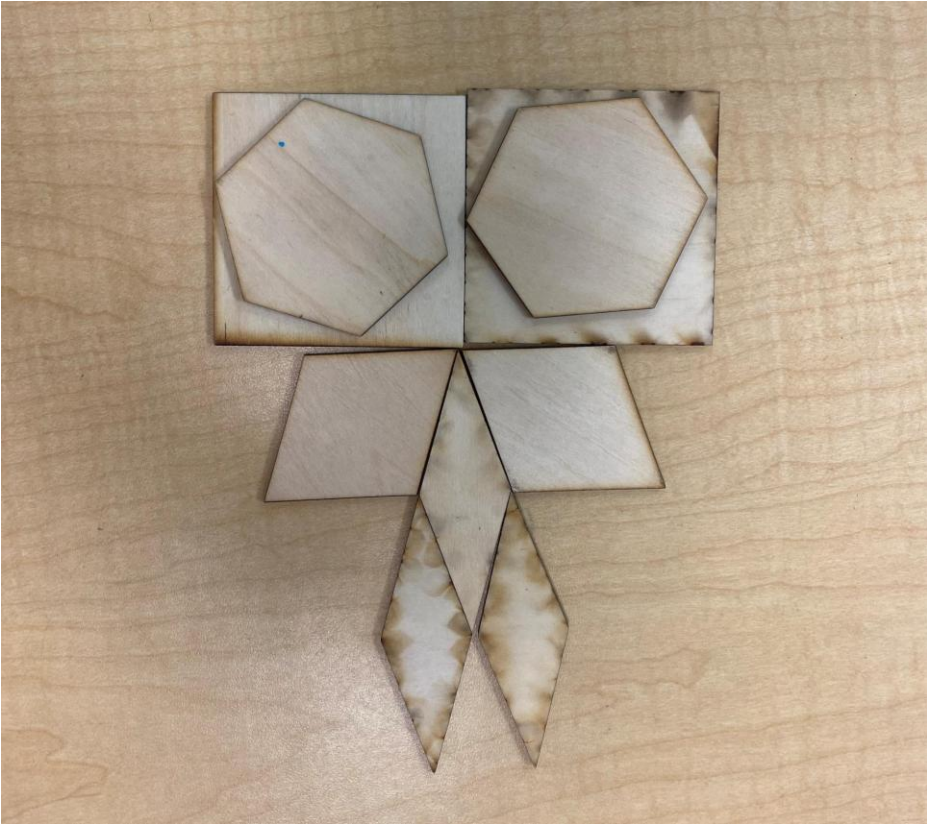
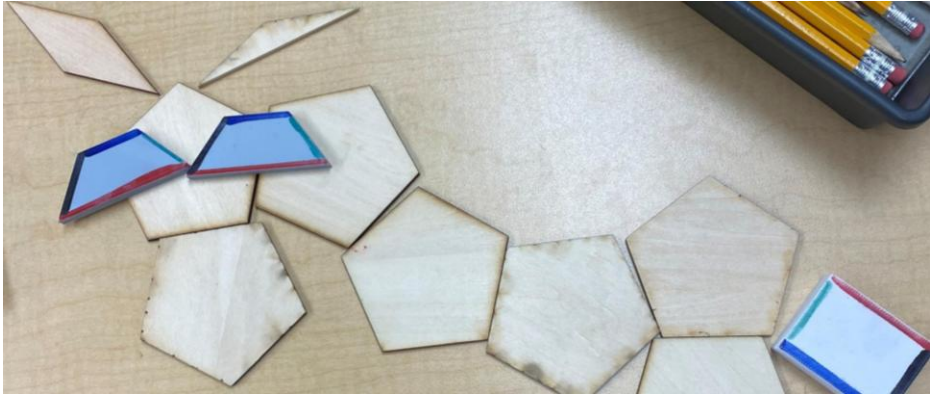
- Shapes
- Bubbles
- True-Lies
- Irrationals
- Monsters
- Game Theory (NEW!)
- Big Numbers
- Playground of the Infinite
- Quantum Computing
- Snowflake Symmetry
- Hyperbolic Crochet



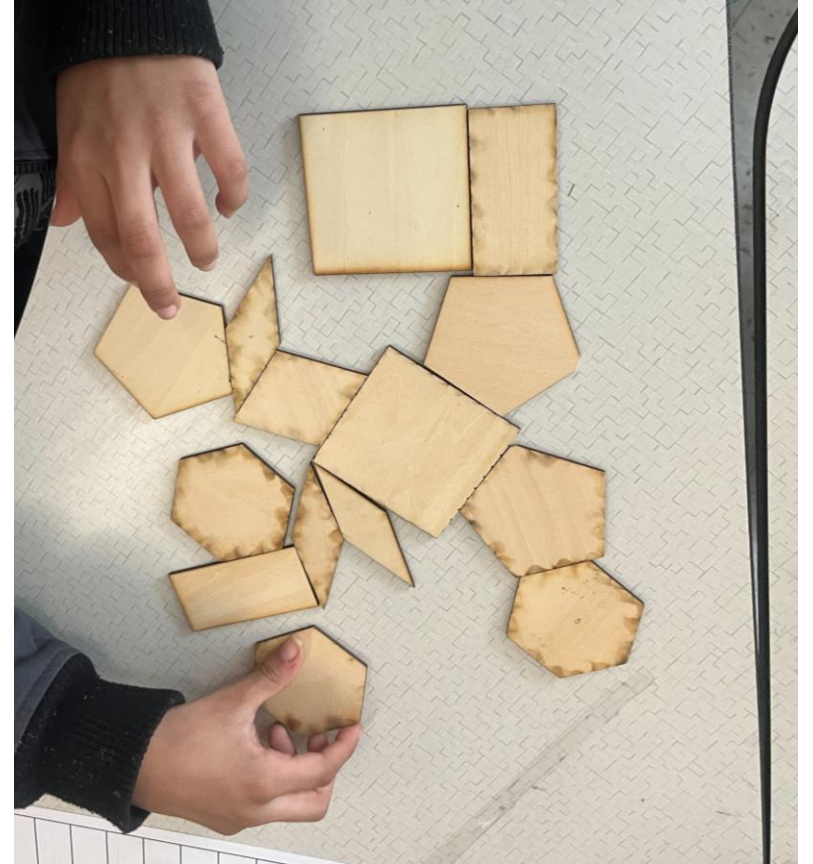
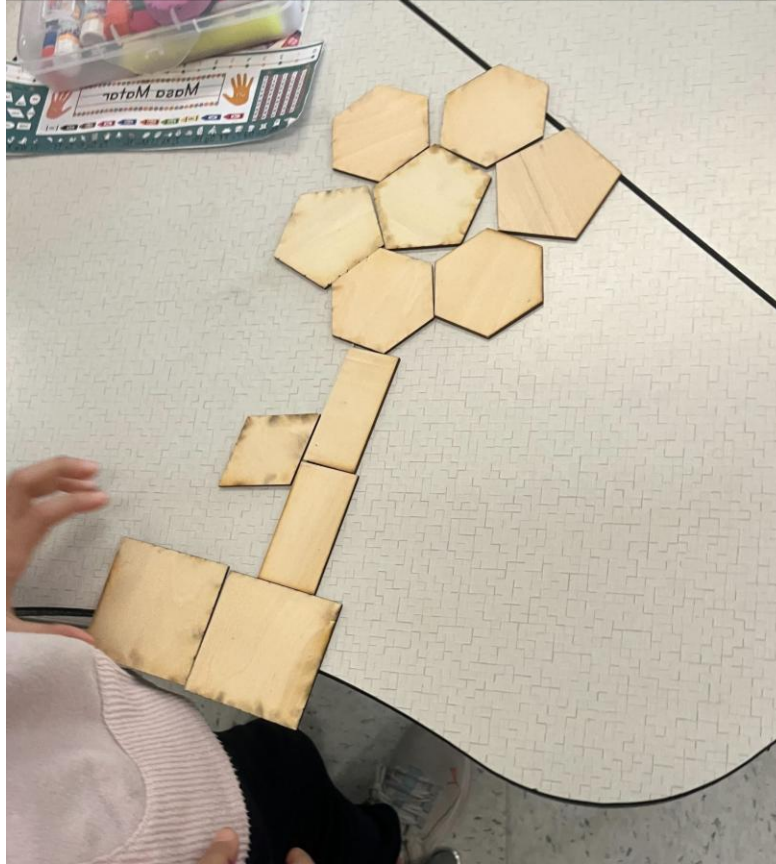


# TSA Regionals Exhibition







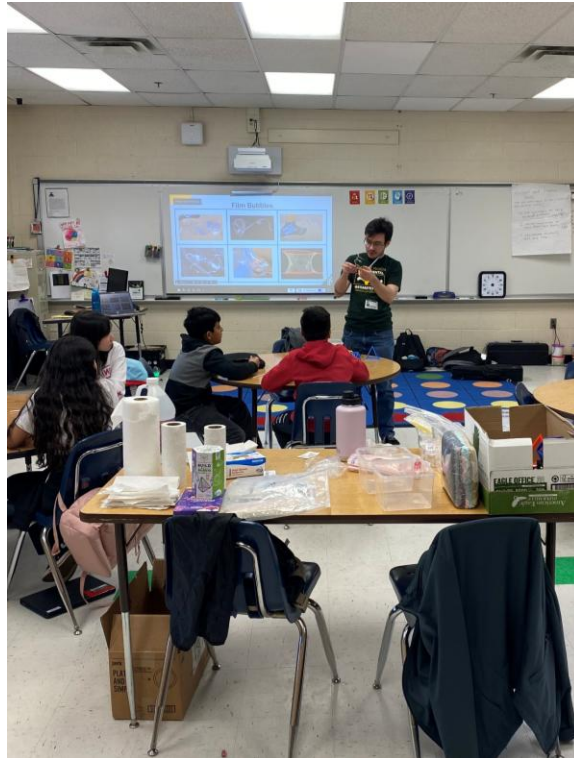


Baldwin Elementary (Manassas)  
- Shapes

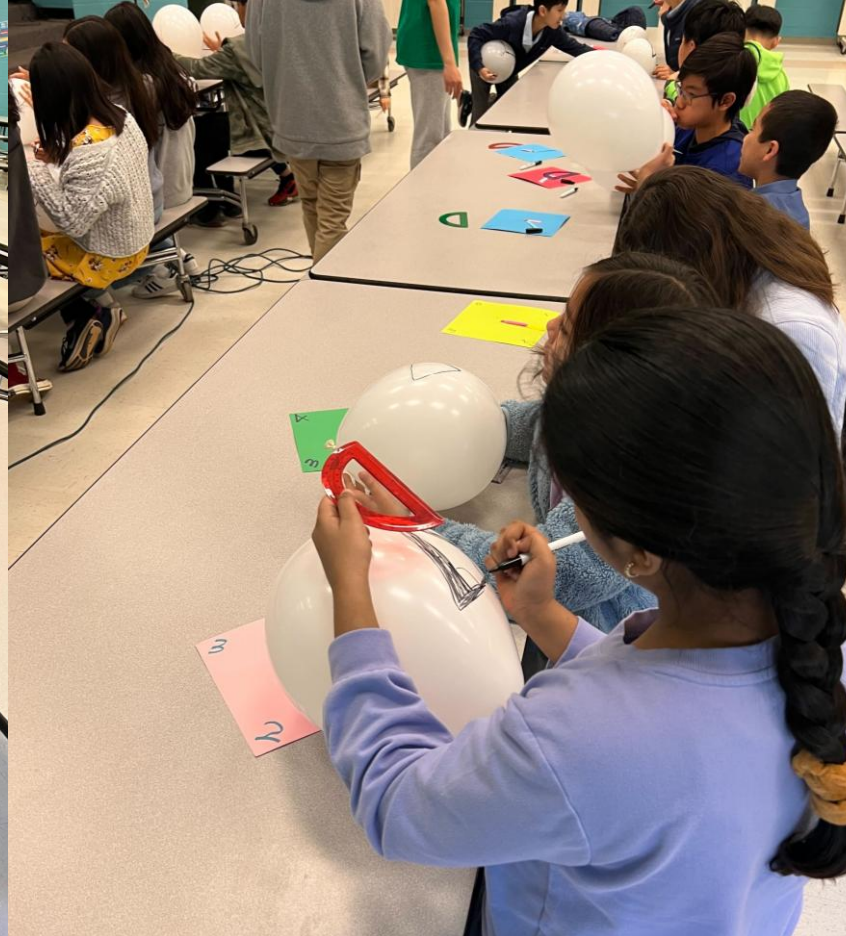


# Pine Spring - Bubbles

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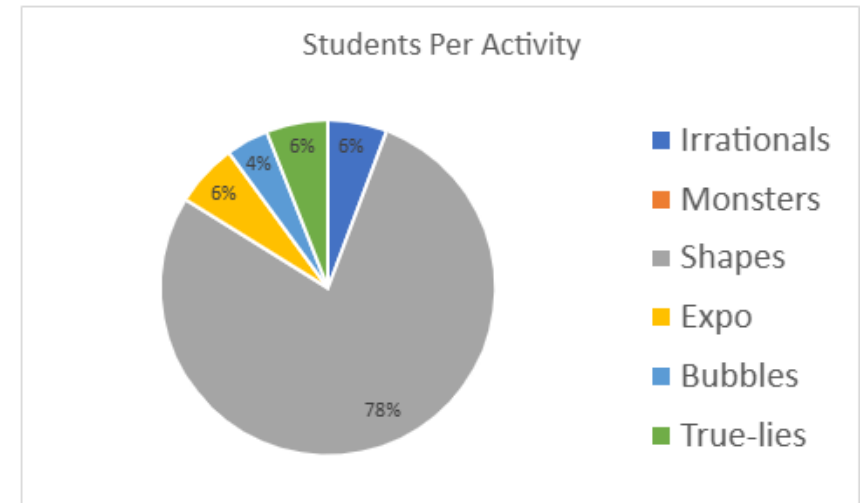
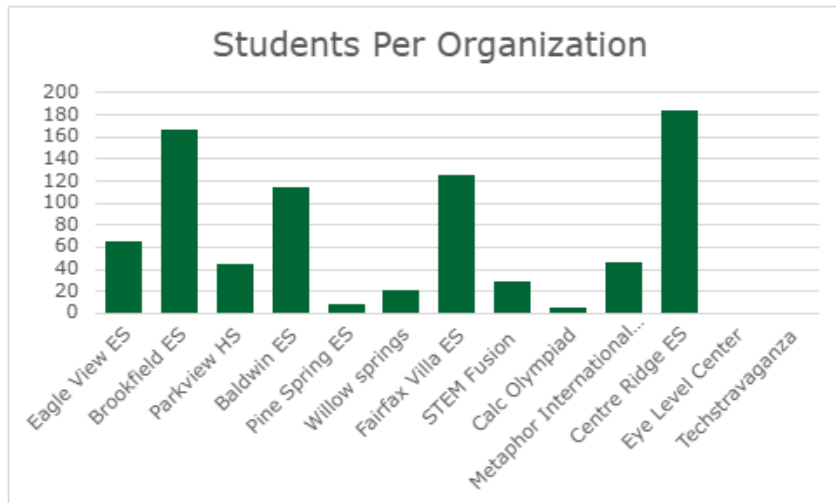
Willow Springs – True lies



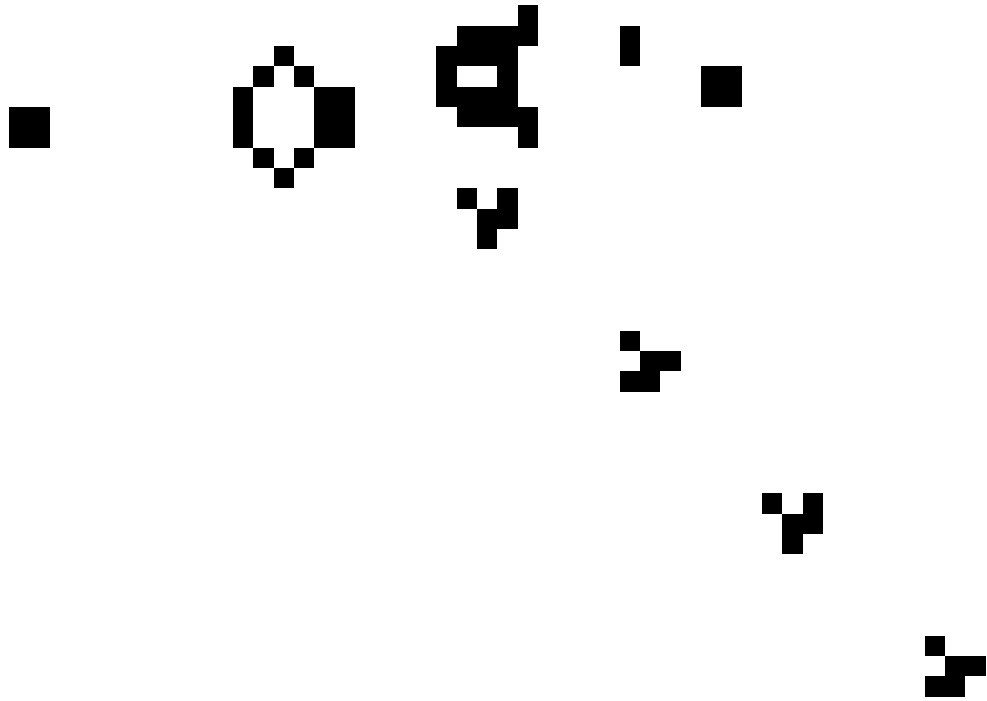


# Spring 2025 Accomplishments

- This semester, we reached over 800 students!
- We were able to run 6 activities.
- Reaching students of all ages from 13 different organizations and events.
- Improved our Bubble solution.
- Shapes was a very popular activity! Almost 500 students were able to enjoy learning about polygons and tiling.
- Continued experimenting with ideas for the Game Theory activity.
- 3D printed gifts for the MOEMS Olympiad







| PLAYER A |   | PLAYER B |    |
|----------|---|----------|----|
| +5       | 👍 | 👍        | +0 |
| +5       | 👎 | 👎        | +0 |
| +0       | 👍 | 👎        | +5 |
| +2       | 👎 | 👍        | +3 |

# Game Theory

- Automatas: Game of Life
- Nash Equilibrium
- 2-players strategy
  - Dilemma's game
  - Subtraction game
  - Nim game



# Final Events

| Date      | Time           | Place                              | Activity                    |
|-----------|----------------|------------------------------------|-----------------------------|
| 5/8/2025  | 5:00-7:00pm    | Eye Level Center<br>Alexandria, VA | Monsters and<br>Irrationals |
| 5/17/2025 | 10:00am-4:00pm | Thomas Jefferson<br>High School    | Exhibition                  |

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