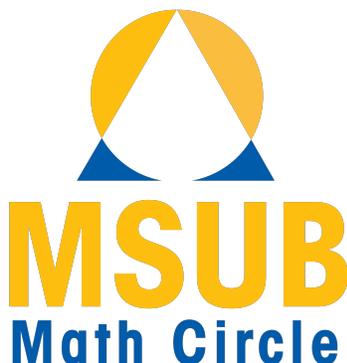


MATH CIRCLE SCHEDULE FALL 2019



- 9/11 **Prime Climb!** Prime climb is a beautiful, colorful, mathematical board game designed for 2 to 4 players. Inspire deeper mathematical understanding while mastering arithmetic!
- 9/25 **Sprouts!** Players place dots on a sheet of paper and take turns connecting the dots with vines. With each connection, a new dot “sprouts” on each new vine. The last player to move wins. What does this game tell us about networks and 3-dimensional shapes?
- 10/09 **Global Math Week!** James Tanton and the Global Math Project previously introduced Exploding Dots, a revolutionary way to re-conceptualize Arithmetic. The same team presents a new way of thinking about Geometry!
- 10/23 **Tiling Torment!** Chessboard puzzles with a twist! How can we tile different boards with different shaped tiles?
- 11/06 **Gerrymandering!** Suppose that supporters of the Purple and Yellow parties are equally represented in a district. How might district boundaries give an advantage to one party? How can we tell if a map is fair?
- 11/20 **Cops and Robbers!** A Robber moves from hideout to hideout while evading a Cop chasing him diligently. Can the Robber keep away indefinitely, or will the Cop catch him? What if she calls for backup, will more Cops let her catch the elusive robber? How do they layouts of the hideouts play into this?
- 12/04 **Holiday Math!** In preparation for the Holiday Season and Winter break, we revisit the strange art of folding paper. Can we make a figure with 3 sides, with 6? What sort of symmetries arise from doing so? Learn to make paper snowflakes which can transform themselves. Other holiday math hijinks will ensue, and gifts will be given!

- **Where and When:** LA 206 from 4:00-5:30
- **Who:** Students grades 4-8, parents and teachers.
- **How:** Contact Dr. Tien Chih at tien.chih@msubillings.edu.

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