



Virtual STEAM

Math

Straw Maze Challenge

Goal: I can create a maze and make a marble travel from the start to finish.

Indicator: MA 2.3.3.d Measure the length of an object using two different length units and describe how the measurements relate to the size of the specific unit.

Materials:

- 1 - 11x14 Foam Board
- 20 - Straws
- 1 - Marble
- Scissors (not included)
- 20 - Address Labels / Tape
- 1 - Ruler



Book Extension:

[Maze Book: Follow Me Around the World by Roger Priddy](#)

[I Can Do Hard Things: Mindful Affirmations for Kids by Gabi Garcia](#)

1. Watch YouTube Video for background knowledge:
<https://www.youtube.com/watch?v=v5uyJlvrBIM&frags=pl%2Cwn>



2. On a sheet of paper, imagine and draw the maze you want to build. In your design, think about how long each straw will need to be. Make sure you have a start and a finish and that the marble will be able to get from the start to finish. You can put as many dead ends as you want.
3. Use the straws to make the maze on the foam board match your design. Cut the straws as needed and then tape them down securely.
4. Label your start and finish on the maze.
5. Place your marble at the start.

Instructions:





6. Hold the maze up and move it side to side and front to back to move the marble through the maze
7. If unsuccessful, begin at the start again or adjust your maze design.
8. When completed, measure the length of the straws sides to the nearest inch. Label your drawing with your measurements.
9. Document the challenge using video, photos, drawings, etc.
10. Have Fun!

Extension Activities:

- Time your marble run and see how quickly you can get through the maze
- Pretend the straws are hot lava, run the marble through the maze without touching the straws (hot lava)
- What part of your maze was too easy? Can you make it more challenging?

Ignite Your Future Connection:

- **Empowerment/Self Esteem** - To feel good about yourself, to feel accepted, to feel proud of who you are and what you can do. Lessons include ways to boost self-confidence, accepting who we are and loving ourselves.

