



DESIGN CHALLENGE

Move the Marbles

Create a marble maze to move the marbles from the tabletop to the bag on the floor.

What You'll Need

- Masking tape
- 5 tubes
- 2 sheets of paper
- 10 index cards
- 10 straws
- 20 toothpicks
- 10 marbles

Quote:

Explain the quote listed in your own words, and then describe how it applies to the design challenge.

"There are no secrets to success. It is the result of preparation, hard work, and learning from failure."
- Colin Powell



Reflection Questions:

What was an element you had to include in your maze for the marble to reach the bag?

How did the distance of the bag from the tabletop affect the design of your maze?



Redesign Challenge:

How would you redesign the maze for the marble to make it to the bag in the shortest amount of time? Longest amount of time?



Overall Design Reflection Questions:

- What were some interesting discoveries you made while working on the Design Challenges?
 - About the problems? About yourself?
- What were some of the difficulties of the Design Challenges?
 - What made them difficult?
- What were some learning moments?
 - What made them so?
- How can you use what you have learned in the future?