



## DESIGN CHALLENGE

### What You'll Need

- Spoons
- Rubber bands
- Cardboard tubes (toilet paper/paper towel)
- Cup with beads

### Quote



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

"The worst enemy to creativity is self-doubt."

- Sylvia Plath

## Simple Device

Design a device that will move a cup of beads from one side of the table to the other side without using your hands to touch the cup. You can only use the supplies available.



### Reflection Questions:

Which supply was most important in your design and why?

What are some real-life examples of a similar system used in today's society?



### Redesign Challenge:

How would you redesign your device if your cup was filled with pennies rather than beads?



### 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?

If you are finding these challenges fun and learning about what you enjoy doing, check out, our Find Your Passion activity, TGR EDU: Explore [tgreduexplore.org/curriculum](https://tgreduexplore.org/curriculum)