



## DESIGN CHALLENGE

# Invent a Vehicle

Develop a new vehicle for transporting hazardous waste to a safe place on land.

## What You'll Need

- Paper
- 6 drinking straws
- Square of cardboard
- Clothespins
- 5 mailing labels
- 10 rubber bands
- Newspaper
- 6 toothpicks
- 3 cardboard tubes
- 20 marbles (this is the hazardous waste)

## Quote:



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

“When you take risks, you learn that there will be times when you succeed and there will be times when you fail, and both are equally important.”

- Ellen DeGeneres



### Reflection Questions:

How does it work?

How does this design challenge apply to the real world?



### Redesign Challenge:

Your delivery route has become flooded. How would you redesign the vehicle to transport the hazardous waste over land and water?



### 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?