



## DESIGN CHALLENGE

### What You'll Need

- 1 sheet of newspaper
- 1 pair of scissors
- Tape
- 1 24" length of string
- Weights (Pennies)

### Quote



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

"Our main business is not to see what lies dimly at a distance, but to do what lies clearly at hand."

-Thomas Carlyle

## Parachute

Design a parachute that can hold weight and descend slowly. The parachute can vary in shape and size. However, take into consideration air resistance and the amount of weight being used. The parachute must drop from a height of five feet.



### Reflection Questions:

Describe how your parachute works.

If you could have had access to items that were different than those provided, what would you have requested and why?



### Redesign Challenge:

Change one variable on your parachute so that it stays in the air the longest.



### 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?

For more on design and engineering, check out – Robots to the Rescue Digital Exploration on TGR EDU: Explore [tgreduexplore.org/curriculum](https://tgreduexplore.org/curriculum)