

MATERIALS

The following is a suggested list of materials needed to complete this challenge. The quantity will depend on the number of students participating. Alternatives can be used if necessary.

- Digital scale or balance (1)
- Measuring tape (1)
- Rulers (1 per team)
- 1-inch strips of hook-and-loop tape
- General building supplies for teams to assemble their game. These could include:



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|------------------------|--------------------------------------|---|
| aluminum foil | empty paper towel/toilet paper tubes | craft sticks or tongue depressors |
| balloons | glue sticks | rubber bands |
| skewers or stirrers | mini foil pie plates | scissors |
| binder clips | modeling clay | staplers and staples |
| bubble wrap | paper bags | straws |
| buttons or beads | paper clips | string |
| cardboard or cardstock | pennies | masking, electrical, transparent and duct tapes |
| clothespins | pipe cleaners | |
| cloth | plastic cups | |
| coffee filters | plastic eggs | |
| cotton balls | plastic wrap | |

Pre-Activity Set-Up:

- Determine a unit cost for each of the materials available. These values can be raised or lowered to adjust the level of challenge difficulty. Teams should itemize their budget using the Budget Planning Worksheet on page 39.