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.

- Vacuum pump
- Marshmallows or balloons (may or may not be filled with water)
- Digital scale or balance (1)
- Measuring tape (1)
- Rulers
- Grid paper
  - aluminum foil
  - balloons
  - binder clips
  - bubble wrap
  - buttons or beads
  - cardboard or cardstock
  - clothespins
  - cloth
  - coffee filters
  - cotton balls
  - craft sticks or tongue depressors
  - empty paper towel or toilet paper tubes
  - glue sticks
  - mini foil pie plates
  - modeling clay
  - paper bags
  - paper clips
  - pennies
  - plastic eggs
  - plastic wrap
  - rubber bands
  - scissors
  - skewers or stirrers
  - staplers and staples
  - straws
  - string
  - tape (masking, electrical, transparent, duct)