

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)
- Stopwatch (1)
- Measuring tape (1)
- Rulers (1 per team)
- Thin string like embroidery thread or fishing line
- Small sealable plastic storage bag to hold payload inside capsule (1 per team)
- Washers, marbles, or pennies to serve as mass
- Hole reinforcements or stickers with holes punched in them
- Template for capsule (1 for each team)



- 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)