

## 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
- Mailing tube, oatmeal canister, or small coffee can (used as size constraint—allow students to fill in this information on the Challenge sheet)
- 3- to 7-cm plastic people (for example, Lego® or Playmobil®) (2)
- Grid paper
- General building supplies for CEV assembly could include



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