

**Procedures for making the design.** Number the steps and explain exactly how to make the design.

- 1) Gather materials
  - 2) Using a ruler, measure (4) 34cm pieces of string
  - 3) Mark each 34cm with a pen
  - 4) With scissors, cut at each 34 cm mark
  - 5) Set aside string
  - 6) Using a ruler, measure material for the canopy of the parachute, 30 cm for each side of the square
  - 7) With scissors, cut along marks on the material until the canopy is the correct size
  - 8) Lay cut material out flat
  - 9) On the material, mark where the string will attach (1 cm from edge) and place small piece of tape on top & bottom
  - 10) Using scissors, make holes through the tape & plastic
  - 11) Tie one of the 34 cm strings through the hole, so that exactly 30 cm of string is usable for the parachute
  - 12) Repeat steps 9 - 12 until all string is used
  - 13) Tie all strings together at the bottom tips (this is where the harness goes)
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TESTING:

- 14) Make a data table
- 15) Time the descent on the iPad stopwatch for each trial
- 16) Drop the parachute at least 3 times, each time from the same place
- 17) Record each time in the data table
- 18) Calculate speed using the times & the distance
- 19) Record each speed in the data table
- 20) Calculate the average speed & enter on data table