

Time: 30-45 mins

Level: Form I-IV



How it Works

Students must build a *parachute* using limited materials to carry a paper clip passenger as close as possible to a target, while maximizing hang time.

What You Need (per team)

- Paper clip - 1
- String - 1 metre
- Masking tape - 15 cm
- Plastic bag - 2
- Plain paper - 2 sheets
- Scorecard (see example below)

RULES

- 10-15 minute time limit for construction.
- Parachutes dropped from a height of 3-5 meters.
- Average hang time and distance from target taken over 3 trials for each team.

Points

Hang Time (Longest): 1st - 50 pts, 2nd - 35 pts, 3rd - 20 pts, 4th - 5 pts, Others - 0 pts
Distance (Shortest): 1st - 50 pts, 2nd - 35 pts, 3rd - 20 pts, 4th - 5 pts, Others - 0 pts

Extra Materials

Tape measure Flipchart target
Stopwatch Ladder / chair

Notes:

★ Scorecard:

Team:	Trial 1	Trial 2	Trial 3	Average	Points
Hang Time (s)					
Distance from Target (cm)					

★ Measure distance from paper clip to center of target.

- Students may not be familiar with parachutes. Prepare a simple example to explain the concept and function.
- Ask students questions: Why does the parachute slow the object down? To maximize hang time, do we want a very large or very small parachute?
- Drop parachute side-by-side with a paper clip having no parachute. Which one made it safely?