



## Make a Parachute

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Have you ever thought about what it would be like to jump out of an airplane? The Science Watch article *Adventures in Skydiving* (<a href="http://www.seed.slb.com/en/scictr/watch/skydiving/index.htm">http://www.seed.slb.com/en/scictr/watch/skydiving/index.htm</a>) was written by people who have done exactly that! They used parachutes to slow their descent so that they could land safely.

A parachute works by spreading out a large area of cloth that is suspended above the person who is falling. The open parachute creates a lot of friction with the air. This friction causes the person to fall at a slower speed.

You can make a small parachute and see for yourself how this works. Here is one way.

## Materials

- large handkerchief, scarf, bandana or other piece of lightweight fabric about 30 cm (12 in) square
- four pieces of string, each about 40 cm (16 in) long
- metal washer or other similar weight

## What to Do

- 1. Tie small overhand knots in each corner of the cloth. Then tie each string to a corner of the cloth above the knot.
- 2. Hold the center of the cloth in one hand and pull all strings with the other to collect them.







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- 3. Tie the free ends of the strings together with an overhand knot.
- 4. Tie the strings to a washer using a lark's head knot, shown below, or other knot.













That's it. Now try out your parachute by releasing it from shoulder height.

How well does it perform? What is a good way to release it so it opens all the way? What do you observe about the way it falls?



Compare your observations with our results (<a href="http://www.seed.slb.com/en/scictr/lab/parachute/res.htm">http://www.seed.slb.com/en/scictr/lab/parachute/res.htm</a>)

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