

# CARGO DROP

Challenge your section to design and make a model to protect precious cargo

SUITABLE FOR BEAVERS, CUBS, SCOUTS

**1** Prepare for this activity by asking the section to bring in boxes and packets of food – dry food such as lentils, pasta and breakfast cereal are ideal. Your section will be designing packaging to protect cargo such as food for humanitarian aid.

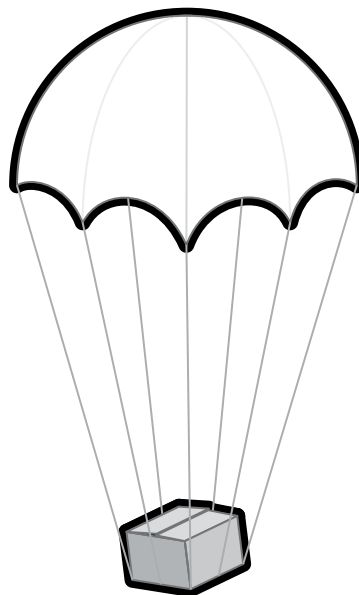
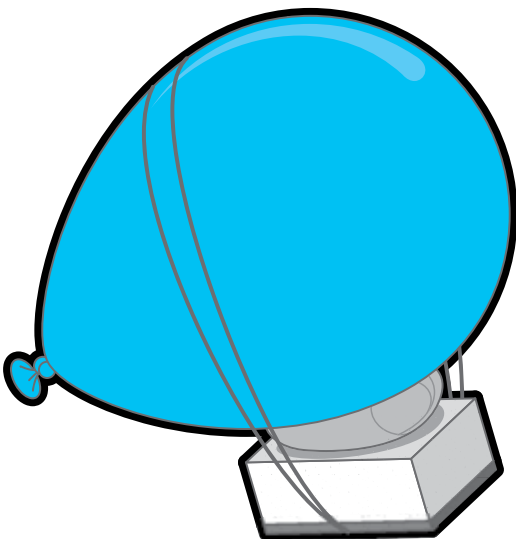
**2** Divide your section into small groups, then get your young people to make a food package. They should measure out 25g of each food and wrap it individually in one layer of tissue paper, secured with a piece of sticky tape.

**3** Now ask each group to design the packaging to protect the cargo. Remind them that the idea of packaging is that it must be durable

and protect the cargo, and it needs to be re-usable. Some ideas include: a sponge tied to an inflated balloon with elastic bands and a box made out of card and attached to a mini parachute made out of fabric.

**4** Ask each group to assemble the materials they will need for their designs, then spend time making it. Use the food parcels to test the designs.

**5** To get it ready for its test run, each group should place the cargo inside the packaging. To test, drop it from a height of two metres. Judge the design on its durability, on how it looks aesthetically and on how well it works.



TIME NEEDED  
**30–45** minutes

## EQUIPMENT NEEDED

- A3 paper ■ A4 card
- String/cotton ■ Sticky tape
- Elastic bands ■ Sponge
- Cotton wool
- Silk or polyester fabric
- Balloons
- Scissors
- Large pieces of tissue paper
- Rice, pasta shapes and lentils
- Measuring tape or 2-metre ruler
- Weighing scales

## THIS ACTIVITY LINKS WITH THE FOLLOWING BADGES



Beaver Creative Activity Badge



Cubs Artist Activity Badge



Cubs Scientist Activity Badge



Scout Craft Activity Badge

## OUTCOMES

As part of emergency aid, a military transporter such as an Airbus has to drop cargo from an altitude to a target on the ground.

## OTHER ACTIVITIES

Perform the task again, but this time set a budget that the section must stick to.

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