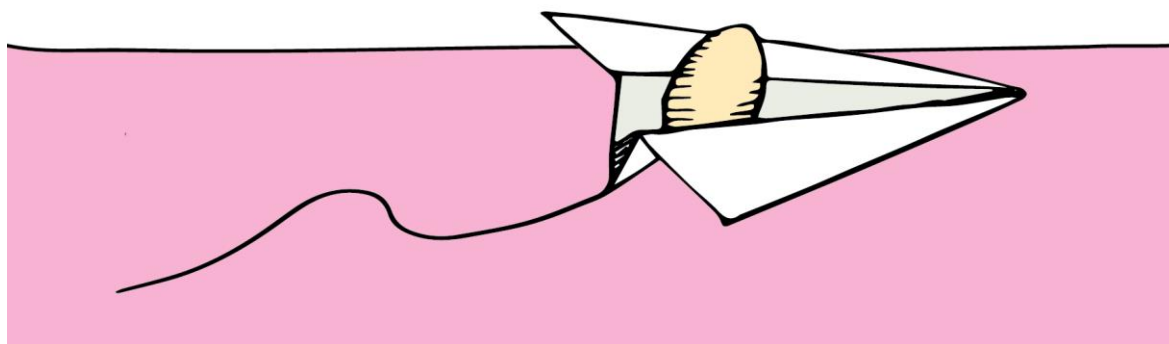


THE ULTIMATE CHALLENGE

Science in motion | Design for safety | Activity C5



CHALLENGE

Your mission is to design a device that will protect your egg from a high fall.

Your teacher will tell you where your devices will be dropped from.

All of the activities in the *Design for safety* set should help you think about what a successful design might be and why.

- Brainstorm and discuss your ideas in your group.
- Discuss the positives and negatives of each idea and come up with your best design.
- Record your final design on the Design Sheet.
- Build your device.

Then your teacher will have everyone display their Design Sheets and devices and you will look at everyone's work.

As you do this think about whether you think the egg will survive or not and why!

Your teacher will organise the grand EGG DROP where everyone's device will be dropped from the same height.

Things you'll need

Design sheet

Egg

Construction materials from school or home: paper, paper towels, straws, cardboard tubes, plastic bags, rubber bands, string

Sellotape

Challenge Sheet

Things to think about and discuss

Think about which devices worked and which ones did not.

What factors helped the egg survive?

What factors did not help the egg survive?

Did any of the designs surprise you?

Why was that?

- Use these conversations to help fill in the final evaluation column on your Challenge Sheet.
- If you were to do another design using the best of everyone's designs what would you do and why?

Teacher support material

For further activities and curriculum support:

[Science in motion \(Waka Kotahi Education Portal\)](#)