

Egg drop challenge



The Challenge

Packaging is becoming a major waste issue. You all work for a packaging manufacturing company that must make packaging that is recyclable, but at the same time must protect the product in case it is dropped.

Company manager, Sir W. Rapper says, 'If you can protect an egg, then you can protect most products. Show me what good ideas you have to reduce over-packaging and good luck with the egg-citing test!'

The Brief

Create a recyclable and protective packaging—that uses the minimum of resources—for a delicate hard-boiled egg—and win prizes!!

More credit will be given for packages that are recyclable, or reusable, and those that use the least materials to do the job.

Any damage or cracks to the egg that result from the drop test will lose credit and the egg that is the least damaged wins.

Resources

Each team has the following equipment;

Scissors and Pritt-stick; an assortment of scrap materials (flat cardboard, cardboard tube, coffee cup, foam, piece of juice carton material, ribbon or wool, fabric plus anything you brought with you! Note: The egg will be given to the chosen team. Ask the supervisors questions if you need to.

Restrictions

- Use the resources, plus any you have brought in.
- Spend no more than **25 minutes** planning and making the package.
- **Only one package to be tested from each group. Vote on the best one.**

No test runs are allowed with the egg for the chosen team – you have one shot at success, and if the egg breaks before the test, that's life.

Testing time!

Your tutor group's chosen package will be dropped from a height (a few metres) to test its strength. Any packages with undamaged eggs will go through to the judging round. Your peers in the design department (one person from each tutor group) will come up to judge the surviving packages to see which is the best in terms of packaging and the environment. Questions may be asked about your design.

Good luck and we hope you get eggcited!