

<b>Lesson Title: Egg Drop Challenge</b>	<b>Key Stage: 3-4, Design and Technology</b>
<b>Curriculum Links:</b>	
1c-e, 1g, 1h, 2b-e, 3a-c, 4a-d, 6a, 6c, 7b; Literacy/ Numeracy/ Citizenship	
<b>Key Words: Packaging; Recyclable; Reusable; Over packaging</b>	
<b>Key Questions:</b>	
<ul style="list-style-type: none"> <li>• What materials can be used for packaging delicate objects?</li> <li>• Why is there a need to 'green' packaging and to reduce over-packaging?</li> <li>• Can we create packaging that is entirely recyclable or reusable?</li> </ul>	
<b>Objectives</b>	
<ul style="list-style-type: none"> <li>• To decide on a design for the package and use the team to develop it.</li> <li>• To develop a package that uses recyclable or reusable materials.</li> <li>• To drop test the package to prove that more sustainable packaging methods are just as effective at protecting the package.</li> </ul>	
<b>Possible Activities</b>	
<u>Starter</u>	
<p>Try the 'Walking on Eggshells' team-building game after dividing the group into 4 – 6 teams. Use cardboard squares, one more than the number of people per team. Place the squares in a line on the floor and ask the team members to stand on them, leaving the middle one empty with no one standing on it. Instruct the team to swap places, so the people on one side of the empty square end up on the other side and vice versa.</p>	
<p>Introduce the challenge. All of the information the students require is on the 'Egg drop challenge' worksheet.</p>	
<u>Main</u>	
<p>Set the students off on the challenge, after setting timings and allocating resources. Supervise and advise if necessary.</p>	
<p>Manage the drop test so that one team drops their package at a time. Check for damage to the egg each time. If there is no damage, the package goes through to the next round. All the packages that protected the egg completely are then judged on how few resources they used and their recyclability. Award a prize to the winning team, maybe a recycled pencil.</p>	
<u>Plenary</u>	
<p>Emphasise the reason for using less packaging and ask the group for their thoughts on reducing plastic packaging in the supermarkets. Is it workable?</p>	
<b>Extension Activities</b>	
<b>Cross Curricular Links</b>	<b>Points to note</b>
<b>Homework ideas</b>	
<p>Next time the students buy something, ask them to find out how recyclable their packaging is. Could they choose more sustainable packaging in their shop?</p>	
<b>Resources</b>	