

## SOLUTIONS

## Design and Technology quiz – Thursday

1. When did the Reserve Bank of Australia and the CSIRO develop the world's first plastic banknotes?



- 1988  
[http://www.powerhousemuseum.com/australia\\_innovates/?behaviour=view\\_article&Section\\_id=1060&article\\_id=10080](http://www.powerhousemuseum.com/australia_innovates/?behaviour=view_article&Section_id=1060&article_id=10080)

2. Mystery objects  
What are these object designed to do?



- Moustache protectors  
<http://www.dailymail.co.uk/sciencetech/article-1045114/The-1920s-satnav---weird-wonderful-gadgets-quite-took-off.html>

3. Where do these fibres come from?
- Angora – rabbit or goat
  - Flax – flax grass
  - Silk – silk worm cocoons

4. What are these fibres made from?
- Rayon – cellulose fibres
  - Polyester – petroleum

- Utes  
An early model Ford utility car/truck



5. Were the first utility trucks developed in Australia or the USA?  
6. In what year was the ute introduced?  
7. What were the first utes called in America
- Joey trucks
  - Kangaroo Chasers
  - Farm mules
  - Hick mobiles

- Australia
- 1934
- Kangaroo chasers  
[http://www.powerhousemuseum.com/australia\\_innovates/?behaviour=view\\_article&Section\\_id=1080&article\\_id=10085](http://www.powerhousemuseum.com/australia_innovates/?behaviour=view_article&Section_id=1080&article_id=10085)

8. Which of these products are worse for the environment when they are used?



Planes – aviation fuel increases greenhouse gases significantly more than other forms of transport



Both Plastic and Paper bags – paper require a lot more water during growth and manufacture and aren't as durable as other products (they have a much lower weight to strength ratio; however they do break down in the environment when they are thrown away

<http://www.treehugger.com/culture/paper-bags-or-plastic-bags-everything-you-need-to-know/page6.html>