



Princess Mary Boxes - DT

What is the best net to make the strongest box?

YEAR 5
Term 1

Key Vocabulary

Princess Mary Boxes

- Princess Mary was the daughter of George V
- The Princess Mary box is an embossed brass box that originally contained a variety of items such as tobacco and chocolate. It was intended as a Christmas present to those serving overseas at Christmas in 1914
- Officers received a box made of silver
- The tin also contained a Christmas card from the king and queen



Making the Box

- You need to make a box with a lid, that is strong
- Test out some different cardboard; easy enough to cut and bend, but strong enough to stand securely
- Look at some different nets and test them out to see if different designs impact the stability of the box

Design

- Princess Mary's boxes had her initials and a portrait of her. Consider how you could make your box reflect you.

Using Craft Foil

- Use a pencil to trace your design onto the foil
- Go over it directly onto the foil to make the design clear and add detail
- Test other tools to make shapes in the foil

emboss
net
score
secure
stable
trace
structure
material
cuboid
tabs

Hovercrafts

- A hovercraft is a vehicle that is able to travel over land and water
- It floats just above the surface on which it travels



- They were invented in the 1950s and are used by the coastguard, in disaster relief
- There used to be a hovercraft service to transport people from Dover to Calais

Making a hovercraft

You will need:

- A plastic plate
- a film or very small bottle
- a nail or sharp object
- blu-tack
- balloon



1. Punch a hole through the centre of your plate with your nail (or sharp object) and another through the bottom of your film canister.
2. Using the blu-tack, stick the film canister (bottom up) over the hole in your plate ensuring there are no gaps and that the holes are not blocked.
3. Now inflate your balloon and twist the end so that the air cannot escape.
4. Stretch the opening of the balloon over the film canister making sure that it lines up with the hole in the bottom of the canister.
5. To test your hovercraft, place it on a smooth, flat surface, let go of the balloon and give it a gentle push.
6. Compare with this model:

<https://www.jpl.nasa.gov/edu/learn/project/make-a-hovercraft/>

compare
improve
pierce
test
innovate
join
assemble

Greek Meze

- Meze is a Turkish word meaning a “bite-sized snack”
- These dishes are traditionally served alongside snacks and can be hot or cold
- They usually include meat, cheese, olives, dips, breads and vegetables



Making your meze

Explore traditional Greek recipes for

- Tzatziki
 - Hummus
 - Pitta
-
- Be adaptable - anything goes on this platter. Feel free to adapt with your favourite meat, cheese and vegetables.
 - Consider what equipment you will need e.g. blender
 - Think about what you will need with your dips e.g. vegetables, pitta
 - You can add flavours to hummus such as sweet chilli sauce, roasted peppers or spices
 - Presentation is important: how will you serve your meze to make it look appetizing?

grate
crudité
blend
unleaven
skewer
whip
meze
platter