

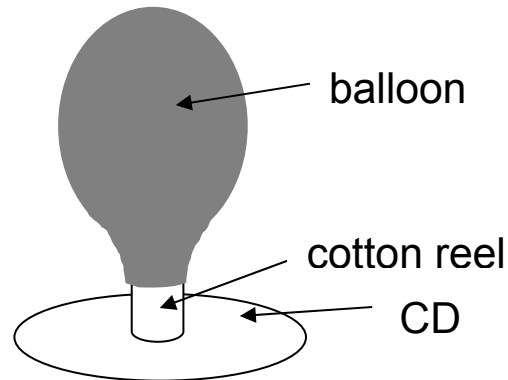
Balloon Hovercraft



Using the kit provided make a balloon hovercraft which travels as far as possible.

KIT LIST

Old CD
Cotton reel
Balloon
Glue
Thin card (if needed)



CONSTRUCTION

1. Carefully glue the cotton reel over the hole in the centre of the CD. The glue must NOT cover the hole in the CD. Let the hot glue dry for a few minutes.
2. Inflate the balloon and twist the end to stop air escaping.
3. Stretch the end of the balloon over the cotton reel.
4. Now you're ready to test on a flat smooth surface.

TESTING

5. Carefully untwist the balloon and give the hovercraft a gentle push. How far does it travel?

PROBLEMS TO THINK ABOUT

The success of your hovercraft depends on making the FRICTION force between the hovercraft and the ground as small as possible.

- Which side of the CD should touch the ground?
- How do you stop the balloon from flopping sideways and dragging along the ground? Try adding a card collar around the neck of the balloon.

Safety Note:

Hot glue is **VERY HOT** and **STICKY**.

Do **NOT** touch the glue with your fingers.

Allow to dry completely before touching.