



Let's Make a Balloon Hovercraft



Let's make hovercraft using the pushing force of air.

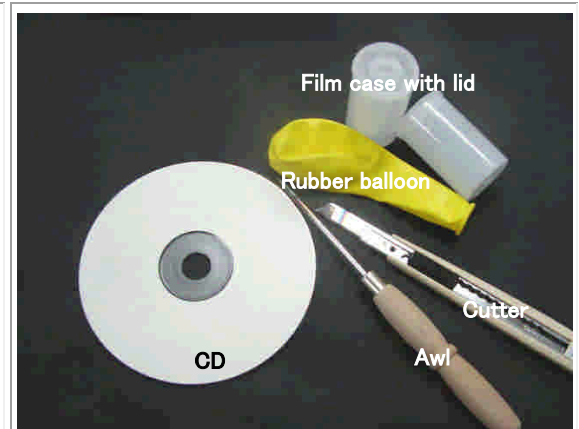


Point

Pushing force of air

Material

Rubber balloon
 CD
 2 Film case with lid
 Double sided tape
 Awl (tool for making hole)
 Cutter



* How to do *

How to make the experimental apparatus

1	2	3	4
<p>Make a hole at the bottom of the film case and the film case's lid (use heated cutter)</p>	<p>Thread the rubber balloon through from the mouth to the hole of the film case and lid as shown in photo.</p>	<p>Open the lip of the balloon and wrap it to the film case lid as shown in the photo.</p>	<p>Place the other film case (bottom part) on the center of the CD using double sided-tape.</p>

※ You should ask help from adult when you use the cutter, awl and fire.

Make a small hole at the bottom of the film case with CD using awl.



Experimental Method

1 Fit the lid with balloon to the mouth of the film case with CD and inflate the balloon.



2 In a flat surface, gently push it down and release it.
How does it move?
✘ The air that comes out under the balloon pushes the hovercraft upward so it float. The friction between the CD and the floor become small causing the craft to glide. When the craft hardly move, try to adjust the size of the hole.



 Progress

Can you guess other things to use instead of balloon?