









# NASA - Tabletop Hovercraft

<http://education.jsc.nasa.gov/brainbite/rocketscience/minihovercraft/default.htm>

Watch the video of how to make the CD hovercraft,

<http://education.jsc.nasa.gov/brainbite/videos/O205/qt/O205Bmed.mov>

**BE CAREFUL!** Safety is **VERY IMPORTANT!** Let an adult use the glue. Here's what you do:

1		Put the CD on the table, <del>shiny</del> label side up.
		Have your helper put glue on the CD inside the ridge. Put the bottle top over the center of the CD into the glue. Let it dry.
2		Be sure the cap is closed.
3		Blow up the balloon. Twist the end closed. Do not tie it.
4		Put the open end of the balloon over the bottle cap. Untwist the balloon.
5		Place the CD on a smooth flat surface. Pull the bottle cap up. Give the CD a little push.
6		Watch it float on air!

## What you need:

An old, unwanted CD

Pop-up top from a dish soap bottle or sports water bottle

Hot glue gun or household silicone caulk glue

Balloon

An adult helper

[emery board or sandpaper to rough up the CD surface for the glue to hold.]

[http://waterrocket.uh-lab.de/o\\_uses\\_hovercraft.htm](http://waterrocket.uh-lab.de/o_uses_hovercraft.htm), retrieved 2006-Feb-12

**Model hovercraft from an old CD** A pretty handicraft project for kids on a Sunday afternoon!



The basic construction: a PET bottle cap is glued to an old CD.

The threaded part of a PET bottle is cut off, a balloon is pulled over the bottleneck. The rim of the cap can be trimmed a little to make room for the balloon's lip. A hole of 4 ... 4.5 mm is drilled into the center of the cap.



Filling the balloon is easy: inflate it through the bottleneck, 1 turn of the neck closes the tubular end. Then screw the bottleneck into the cap. This arrangement had one disadvantage: while hovering over the floor, the balloon bent sideways, acting like a brake on the floor.



To prevent the balloon from bending sideways, we made a paper sleeve.

Tim, showing another filling technique.



The finished hovercraft, gliding elegantly and frictionless over the floor. Nieces Hanna and Flora drive it through the room. Sorry, no sound available!

Luftkissenfahrzeug aus einer alten CD im Selbstbau Stand / Last Revision: 31.01.2004