



# Balloon-Propelled CD Hovercraft



<https://youtu.be/DikofrxCiXs>

## Materials



Decorations



Old CD or DVD



Hot glue gun



Pop-up  
bottle top



Balloons

## Instructions

1. Decorate the shiny side of the CD.
2. Place hot glue on the rim of the bottle top to create a seal around the center hole of the CD. Hold it tight and wait a few minutes for it to cool.
3. Add a small amount of hot glue around the edge of the bottle top and CD to secure the seal, we don't want any air leaking. Allow to dry.

## Testing time

4. Place the CD on a smooth surface with the bottle top facing up.
5. Close the bottle top.
6. Inflate your balloon, pinch it closed.
7. Place the balloon on the bottle top as far down as it will go, with the balloon vertical.
8. Open the bottle top and watch your CD float over the surface.

## Explore some more

1. What happens when you have less air in the balloon?
2. Repeat on different surfaces. What's the difference between travel on smooth vs rough surfaces?
3. Try putting tape on the bottom of the CD hole and place small holes in the tape. What happens when you add more holes?

## The science, how does it work?

Higher pressure air from inside the balloon is forced downwards creating a cushion of air for the item to float.



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