Make a Hovercraft
Materials for the Hovercraft
Tape: Electrical, Duct, Foam
Fan, battery clips, batteries, switch, bag
Foam core panels, circle template
Tools: scissors, screwdriver, stripper
Step 1

Remove Molex connector from wires on computer fan.
Step 2

Your fan may have 2-4 wire, we are only interested in two of them: red and black. You can tie off or safely remove the others.
Step 3: Build the circuit
Step 4: Solder or twist wires to switch

- Solder one black wire from fan to one leg of switch.
- Then one black wire of battery clip to the other leg of the switch.
- We did this for you!
Step 5

- Twist together the free red wire of the battery clip to the black wire of the second clip.
- This put the batteries in series to double the voltage.
Step 6: Cut a small piece of electrical tape
Step 7: wrap the exposed wires with tape
Step 8

- Twist together the remaining two red wires: one from the fan and the other from the second battery clip.
- Wrap the exposed wires in electrical tape.
Step 9: Circuit complete!
Step 10

- Place the fan in the middle of the plastic bag.
- Grab a Sharpie and trace the fan opening onto the bag.
Step 11

- Place two panels of foamcore into the plastic bag.
Step 12

- Take the scissors and cut out the circle.
Step 13: You made a hole!
Step 14

• Flip over the bag and place the circle template inside on top of the foam core.
Step 15

• Use a small Philips head screwdriver to punch holes along the lines of the concentric circles about a half inch apart.
Step 16

- Great! Now you can flip the plastic bag over to the side with the single large hole.
Step 17

- Place the fan “wire side down” over the hole and grab the duct tape.
Step 18

- Firmly tape down each side of the fan to the plastic bag.
Step 19: Looking good!
Step 20

- Place a small piece of double stick foam tape on one corner of the fan.
- Put the switch on top of the tape.
Step 21

- Now take two small pieces of foam tape and place them on each side of the fan.
- This is to hold the batteries in place.
Step 22

- Put the batteries on the clips and place on the foam tape.
- One on each side.
Step 23: Batteries in place!
Step 24

- Tape down the loose wires with some electrical tape.
Step 24: Close the bag and turn on the fan!
Step 25: Watch ‘em scoot!