

# THE VORTEX CANNON

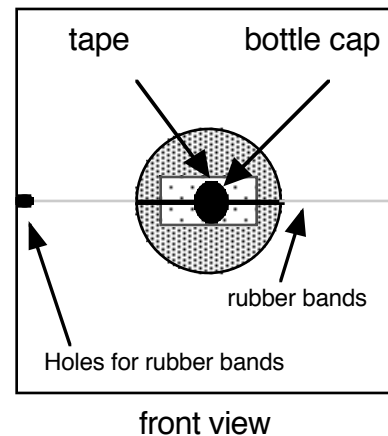
## CONSTRUCTION OF THE VORTEX CANNON

**MATERIALS:**

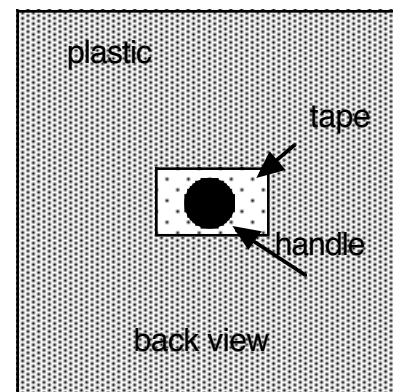
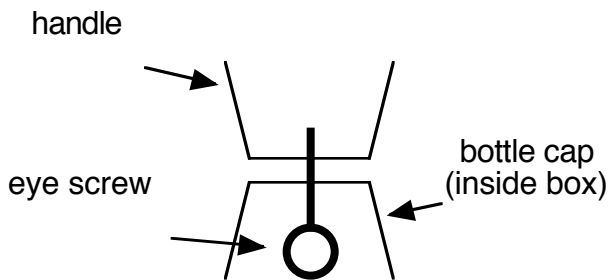
cardboard box (any size)	6 mil plastic (clear)
duct tape	drawing compass
sharp knife	3 paper clips
2 plastic bottle caps	1 wooden handle (or pop bottle top)
1 eye screw	2 rubber bands (length depends on box size)

**PROCEDURE:**

1. Cut off the top of the box (the flaps).
2. Cut a hole in the back of the box that has a diameter of about 15 cm (it depends on the size of the box). Use a compass to draw the circle and use a sharp knife to cut it out. After the circle is out secure any weak spots on your box with duct tape. The side you cut your hole out of is the front of your vortex cannon.



3. Attach the plastic to the back of your cannon. It should fit loose enough so you can push it in about half way to 3/4 of the way in. Use duct tape to attach the plastic. Make sure that the plastic is completely sealed to the back.
4. Make the handle for the cannon. Do this in the following steps. Attach the eye screw through the bottle caps as in the diagram below.



5. Attach the handle to your cannon. Do this in the following steps. a) Poke two holes in the front side of the cannon (as shown in the front view) for the rubber bands to go through. b) Put a piece of duct tape in the center of the plastic on both the inside and outside of the plastic. c) Attach rubber bands to the eye screw d) Disassemble the handle for the cannon. Reassemble to the plastic such that the plastic is in between the two bottle caps. The bottle cap with the eye screw should be on the inside of the box. A pop bottle top can be attached to the other side for a handle. e) Reach in the front hole on your cannon and poke the rubber bands through the small holes in the side of your cannon. Loop each on a paper clip to keep it tight. This should cause the plastic to be pulled into the box. f) FIRE AWAY!