

Jake and Matt's Guide to the Bernoulli Levitator

Dear Future Bernoullians,

The Bernoulli Levitator seems complicated, but it is actually a very simple and entertaining project. We used a big cardboard box and cut a hole small enough so the opening of the blow dryer could barely fit in. Next, we tested several plates(plastic and paper) to find the most efficient one. Light and small diameter plates worked best. For the blow dryer, try to get one that shoots air at a high rate, but does not overheat. The one we used had a button that shot cold air and we taped down that button because temperature has no effect on Bernoulli's principle.

Once the effect is produced effortlessly, decorate the box to attract curious children and adults. We chose a theme, inside the box, we made it look like a UFO was appearing on some farmland. The UFO was the plate being levitated and it was surrounded by green grass, cows, and US Army toys. All of which we found at the dollar store. We covered the box with aluminum foil to give it even more appeal.

When the kids came, we shouted, "Want to see a UFO fly," to catch their attention. This is the best part, showing off your exhibit and you want to be able to attract kids. Nothing is worse than having kids walk past your exhibit. So try to come up with a phrase to sell kids on. Also, research Bernoulli's principle everywhere to gain a huge understanding on how the effect works. Mention real-life applications of Bernoulli's principle especially for when teachers and parents want to know.

Lastly, be prepared. Bring extra materials just in case something doesn't work. And bring an excitement for science.

Sincerely,

Jake and Matt