

## Notes to the Future Anti-gravity Bowling

Antigravity bowling is an overall fun and interesting setup to exhibit. The exhibit itself is very easy to gain materials for. You should definitely use a cardboard box no higher than 20cm tall that should be able to fit a large magnet. To make the exhibit more entertaining, use different colors paints and pictures to decorate the sides as it will draw more attention and appeal to the kids. The last thing you want is a dull, boring setup that no kids will be drawn to. Other than just looks, when you are explaining your exhibit you want to show how it works. To do this, cut a side of the box out and put a curtain so you can lift it while presenting to let your audience see exactly what it is that is causing the magnetic effect. You should also keep some books under the magnet as the top of it should be very close or touching the top of the box as it gives the best effect. While presenting, you can make it more interesting by making a game out of it and having kids go for the twenty in the middle. Use colored paperclips as little kids sometimes prefer their favorite color when they throw it. To show how metals attract, use a penny or quarter to explain how magnets only work with certain metals. The last bit of advice is to not procrastinate and put this off to the last minute. This exhibit is very easy and can be made very well in just a few days if you use your time wisely.

### **db adds:**

**Understand “induced magnetism.” Why do the paperclips stand up and away from one another rather than clump up. This is not a simple matter of iron being attracted to a magnet. Each clip becomes a temporary magnet. Opposite pole on the clip attracts to the radar magnet pole near the box top. The other end of the clip stands away because it’s a like pole to the radar magnet pole. The bottom ends of the clips (feet) standing on the box repel one another because they have the same polarity as each other.**