Activity 2. (Advanced) If you’re ready to take a next step, you can also make your pencil levitate!

Step 1: The first thing you need to do is divide the pencil into thirds by pushing the two ring magnets in place like in the picture here:

Step 2: You may need an adult to help you with this part. You need to make three cuts in the rubber pad (in your Scavenger Hunt Checklist)…one near the tip of the pencil, and two where the two magnets will be.

Step 3: Push a coin in on one end, and 4 ring magnets as shown. The two ring magnets closest to the coin should attract the magnet on the pencil, while the two furthest from the coin should repel. Test it to make sure.

Step 4: Adjust the magnets on the pencil to balance. The magnets in the pencil should be placed just inside the magnets in the foam base.

Step 5: Spin your pencil! You’ll notice that it will spin for a long time. This is because there is very little friction to stop it!