

## Defying Gravity

Can you make an object float in midair using magnetism?

### Materials:



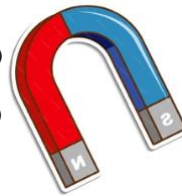
Shoobox



Thread



Paperclip



Magnet



Tape

### Procedure:

Gather the materials.

Tie one end of a long piece of thread to the paperclip.

Stand the shoe box up vertically and tape the other end of the thread inside, so the paperclip almost reaches the top.

Set the magnet on top of the box. Lift the paperclip up until the magnet grabs it, then let go. The paperclip should hang in midair. If it keeps falling, use a stronger magnet.

Once the paperclip is in the air, gently hang additional paperclips from the bottom of the first, forming a chain. When it gets too heavy, it will fall. Experiment with other materials. Can anything else hang in the box?

