

Jumping Bean STEM Challenge

The foil and marble jumping bean flips and bounces as it moves around.



Materials



Marble



Plastic container



Kitchen Foil 9cm x 6 cm



Tape



Instructions

Roll the foil carefully into a tube shape slightly wider than the marble.

Use a small amount of tape to fix the foil in place and put the marble inside the tube.

Fold and press both ends carefully to seal them. The marble should be able to move freely inside the foil.

Put the foil covered marble into the plastic container and shake it around until both ends are round and smooth.

Your jumping bean is ready to use!

How does a jumping bean work?

As the jumping bean moves, the marble rolls in the foil until it hits the end of the tube. This makes the bean flip over, the marble then rolls to the other end, and the bean flips again. This is why the movement of the bean seems so strange. The foil and marble are moving independently of each other.

