

Magic Marble

Materials:

- a large glass jar
- a marble

Directions:

- 1) Put your marble on a flat surface.
- 2) Do you think the marble can lift off the surface without you touching it?
- 3) Place the jar upside down over the marble so it is touching the inside curve of the jar.
- 4) Hold onto the bottom of the jar and begin to rotate the jar fast.
- 5) Make sure you keep the mouth of the jar on the flat surface.
- 6) Why do you think the marble climbed up the jar and kept moving as long as the jar was rotating?

Inquiring Minds Want to Know

When your marble begins to spin, force goes into motion. Newton's first law of motion says that an object at rest remains at rest and a object in motion stays in motion unless acted upon by an outside force.