



0 WOW! Moment—Egg-Citing Inertia

How does the spin rate change as you toss differently filled bottles of water?

MATERIALS

- ❖ Three Water Bottles
- ❖ Yep—that's all

GET SET UP

1. You'll need three water bottles—one filled completely, one half full (or so) and one completely empty.
2. You are going to toss and catch the bottles.
3. Start with the full bottle of water. You will first do a half toss—this is achieved by starting with the cap of the water bottle facing you, tossing it in the air and catching it with the bottom of the water bottle facing you.
4. Now with your full bottle do a full toss—this is achieved with the cap of the water bottle facing you, tossing it into the air and catching it with the top facing you.
5. Now try to double, triple and quadruple tosses.
6. Now try the same tosses using the empty bottle and the half full bottle.
7. What do you notice?