



SCIENCE FUNFAIR

You have heard of table tennis
And
Lawn tennis

BUT

Today we will play
bottle tennis.

Materials:

A table tennis ball

A tall bottle with a wide mouth (The bottle should be about a foot in height)

Rules of play:

1. The ball on the table should enter the bottle without any part of your body touching it.
2. You are not allowed to blow at the ball.
3. The table should not be moved.
4. The bottle should not be made horizontal.

Begin:

First, keep the table tennis ball on the table.

Keep the bottle next to it.



Now keep the bottle upside down on the ball.

Hold the bottle tightly with both your hands and turn the bottle vigorously on the table.

As the speed of the bottle increases, the ball will start jumping into the bottle.

Quickly lift the bottle and keep it in its original position.

The swirling ball will be inside the bottle.

So what do you think?

Are you ready for a game of bottle tennis?

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The Science-Fun behind it..

- As the sides of the bottle are curved, the ball starts moving round and round. And the centripetal force thus created makes the ball keep going in circles and forces it to move upwards in the direction of the bottle.
- If at that moment you lift the bottle, you get tennis ball in a bottle!

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Science-Fun Findings :

Try this experiment with different balls varying in weight.

First turn the ball round and round
and then
move the bottle on it in circles:
what do you think will happen?...
Why don't you try doing it?

Fun: Bottle tennis can be played anywhere.

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- RAJIV TAMBE

- rajcopper@gmail.com