

# Lab

# KIDZ

Fifth Grade



# 13. Floating ball

**Topic:** Bernoulli's principle

**Objective:** Bernoulli's principle.

**Vocabulary:** balance, Insulating tape, blow

## Material:

- 1 plastic bottle with cap
- Insulating tape
- Scissors
- Long nail
- Candle
- Matches
- A flexible straw
- A plastic ball

## Development:

1. Cut the top of the bottle so you can make a funnel.



2. Carefully light the candle and ask your teacher for help to heat the nail and make a hole in the lid, right in the center.



3. Put the lid on the bottle. Put the straw in the previous hole.



4. Place the ball in the bottle and blow evenly. Observe what happens.



## Tell us...

Read and answer. Write yes or no.

1. The speed of the air blowing was enough to lift the ball.

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2. Air must blow constantly to keep the ball lifted.

\_\_\_\_\_

3. Blowing too hard doesn't lift the ball.

\_\_\_\_\_

4. Hot air lifts the ball higher because of its density.

\_\_\_\_\_

5. Using water instead of air, the result is the same if the speed is constant.

\_\_\_\_\_

## Write your experience in the experiment.

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