



Science Lab



1



7. Floating ball

Topic: Bernoulli's principle

Objective: Student will learn about Bernoulli's principle.

Vocabulary: balance, insulating tape, blow

Materials:

- 1 plastic bottle with a cap
- Insulating tape
- Scissors
- A long nail
- A hammer
- A flexible straw
- A plastic ball

Development:

- Read and look at the pictures.

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

Step 2. Carefully use the hammer and the nail to make a hole in the bottle cap, right in the center.

Step 3. Put the straw in the hole – in the cap, and place the ball in the bottle-top.

Step 4. Put the cap in the bottle-top and blow evenly - observe what happens.

Step 1.



Step 2.



Step 3.



Step 4.



Tell us...

Read and write YES or NO.

1. The speed of the air blowing was enough to lift the ball. _____
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. You get the same result if you use water instead of air and the speed is constant. _____

Glue a picture of your project finished!

Floating ball

Glue your
picture here
:)

1. What was your favourite part of the project? _____.

2. What, exactly, did you like the most?

_____.

3. Extra notes on what you observed during the project. _____

_____.

4. Can you see or apply the information from the project in real life? YES / NO

Explain: _____

_____.

5. Was it easy to get the materials for the project? YES / NO

Explain: _____

_____.