



## 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:

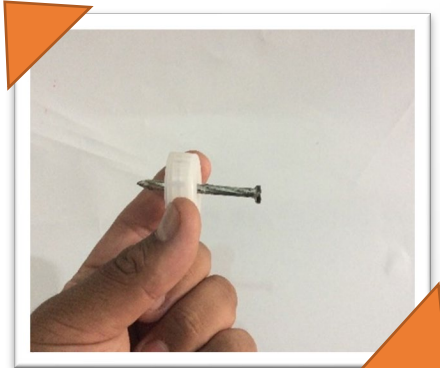
- **Read and look at the pictures.**

- 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: \_\_\_\_\_  
\_\_\_\_\_.