

Experiment S-11

Barometric Pressure and Altitude

Objectives

- To learn about the connection between barometric pressure and altitude.
- To explore barometric pressure and altitude measurements at different heights.

Description

In this experiment you will measure barometric pressure and altitude at different heights in a building or a hill, through Panda's barometer and altitude sensors.

You will need:

- Access to a tall building or a hill



Instructions

- Press on the icon on the top left of the Panda screen and pick the "Barometer" option (if it is not already selected).
- Press on the Icon on the upper right side of the screen and click on "kPa".
- Measure the barometric pressure in the ground floor of the building. Write the results in the circles in the next page.
- Press on the icon on the top left of the Panda screen and pick the "Altitude" option.
- Measure the altitude in the ground floor of the building. Write the results in the circles in the next page.
- Repeat these steps in the middle floor and in the top floor. Alternatively, you can measure different heights on a hill.

Barometric pressure and Altitude

Barometric pressure:

Altitude:

Top floor

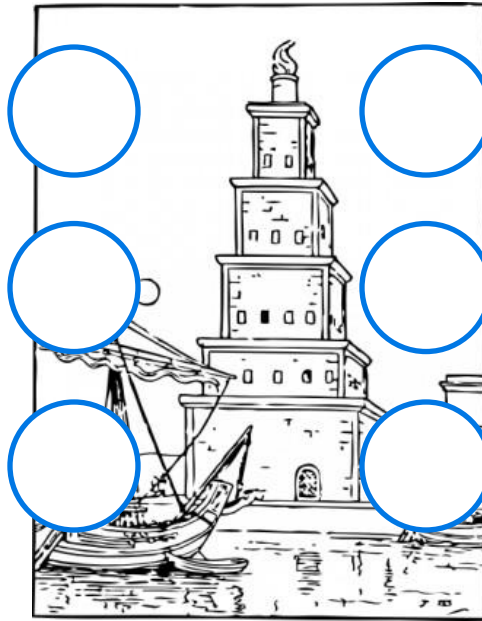
Top floor

Middle floor

Middle floor

Ground floor

Ground floor



Circle the right answer:

- When the altitude is high, the barometric pressure is **high/low**.
- When the altitude is low, the barometric pressure is **high/low**.
- Explain this phenomenon

