

8. Bag power

- Topic:** Atmospheric pressure and surface of things
- Objective:** Students will learn about the pressure of objects. They will try to find a way to explain the resistance of some materials when subjected to pressure.
- Vocabulary:** atmospheric, resistance, bag, straight
- Materials:**
- Zip-up bags (any other would have a different result)
 - Well sharpened pencils with circular shape (not hexagonal or other shape)
 - Water

Development:

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

- Step 1.** Fill the bag with water, about a half, and zip it up.
- Step 2.** Insert a pencil as straight as possible to prevent the holes from becoming too large - remember the pencils must be well sharpened.
- Step 3.** Continue inserting pencils, one by one – every time you insert another one, observe what happens.

Step 1.



Step 2.



Step 3.



Tell us...

Read and put a tick (✓) for YES or a cross (X) for NO.

1. The bag got filled with oil. _____
2. Water makes the bag resistant. _____
3. The bag did break. _____
4. The pencils were very sharp. _____
5. All the water came out of the bag. _____

Glue a picture of your project finished!

Bag power

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: _____

_____.