



Science Lab



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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 3.



Step 2.



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: _____

_____.