

Science Lab



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7. Nail rusting

- Topic:** Rusting of iron
- Objective:** Students will observe the different changes in iron in different conditions.
- Vocabulary:** reactions, rusting
- Materials:**
- 5 empty bottles of water
 - Grain
 - Water
 - Oil
 - Sea water / Salt + water

Development:

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

Step 1. Place the 5 bottles on a table or on a flat surface.

Step 2. Prepare the solutions as follows:

Bottle 1 – keep it empty.

Bottle 2 – put some grain – rice.

Bottle 3 – put some water and salt.

Bottle 4 – oil and water.

Bottle 5 – water.

Step 3. Put two nails in each bottle.

Step 4. Place the bottles in a place for the rest of the day. Next day observe and write what has happened. Which bottle condition got the fastest rusting? What other changes can you see in all the bottle conditions?

Step 1.



Step 2.



Step 3.



Step 4.



Tell us...

Read and write YES or NO.

1. All the bottle conditions had the same kind of change. _____
2. Rusting happened at the same speed in all the bottles. _____
3. Rusting speed does not depend on the place conditions. _____
4. The rusting has different colours. _____
5. The fastest rusting has a bit red in colour. _____

Glue a picture of your project finished!

Nail rusting

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: _____
_____.