Chemistry sets → Corrosion → Iron corrosion

Iron corrosion

Study iron corrosion under different conditions

Difficulty: Danger: Duration: 1 hour



Do this experiment at home

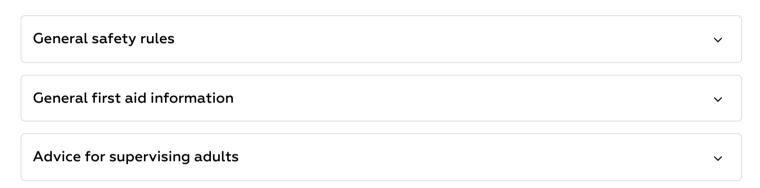
This experiment is included into "Corrosion" kit along with "Nailbreak" and "Stopping corrosion". Subscribe and get everything you need to do this experiment at home.

Learn more →



Safety

- Put on protective gloves and eyewear.
- Conduct the experiment on the plastic tray.



FAQ and troubleshooting

My steel wool floats in the soda water. What should I do?

What type of vegetable oil will work for the experiment?

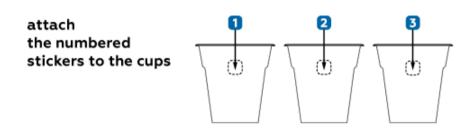
Other experiments

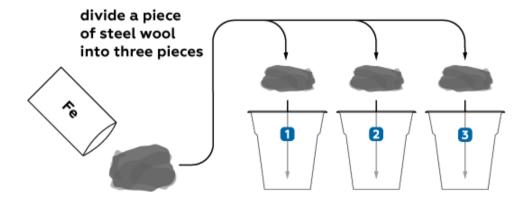
Tin hedgehog

Liquid wires

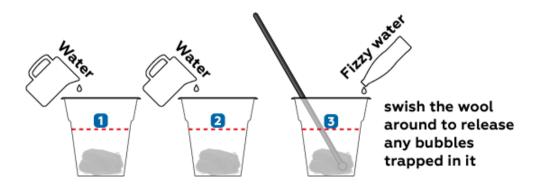
Step-by-step instructions

Prepare three samples of iron.

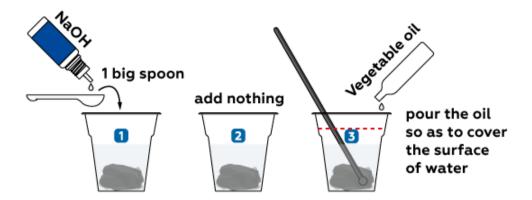




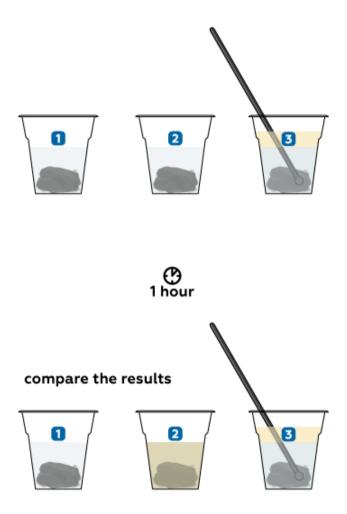
Add regular water to the first two samples and fizzy water, which contains less oxygen, to the third.



Add NaOH to the first sample to create a basic medium. Leave the second sample as is. Pour vegetable oil into the third sample to prevent oxygen from entering the water.



Under basic conditions, and in the absence of oxygen, the iron will remain almost entirely uncorroded. In the regular water, it will rust.



Disposal

Dispose of solid waste together with household garbage. Pour solutions down the sink. Wash with an excess of water.



Dozens of experiments you can do at home

- One of the most exciting and ambitious homechemistry educational projects
 - The Royal Society of Chemistry

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