

DEMOSOFC

TUTTO INIZIA DA

A



#AcomeAScuola



TO DO

Step 1 – discuss renewable energies with your students

Step 2 – watch DEMOSFC video illustrating DEMOSOFC plant in Collegno with them (you can use the presentation you find among our Resources, if you think it may be useful)

Step 3 – try to build up an Aluminium-Air Battery (you find the scheme and reactions in the following pages)

Step 4 – comment on results and, if you want, share them with us!



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Resources

This activity is based on an experiment from the Exploratorium of San Francisco

Aluminium-Air Battery

Materials

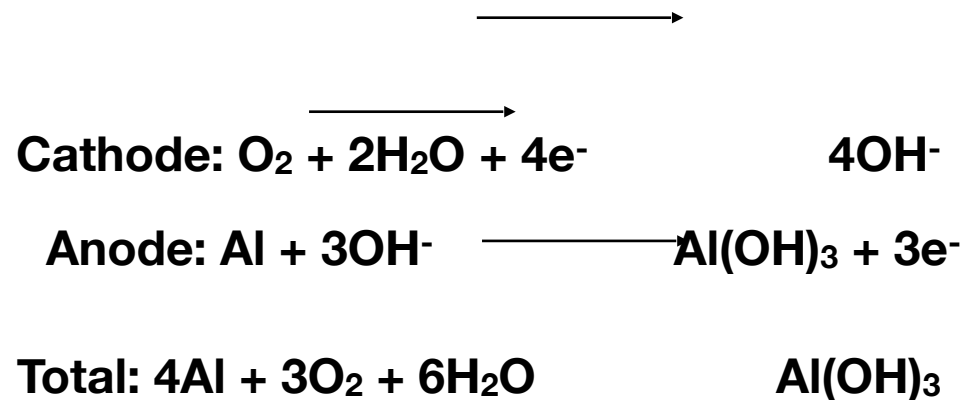
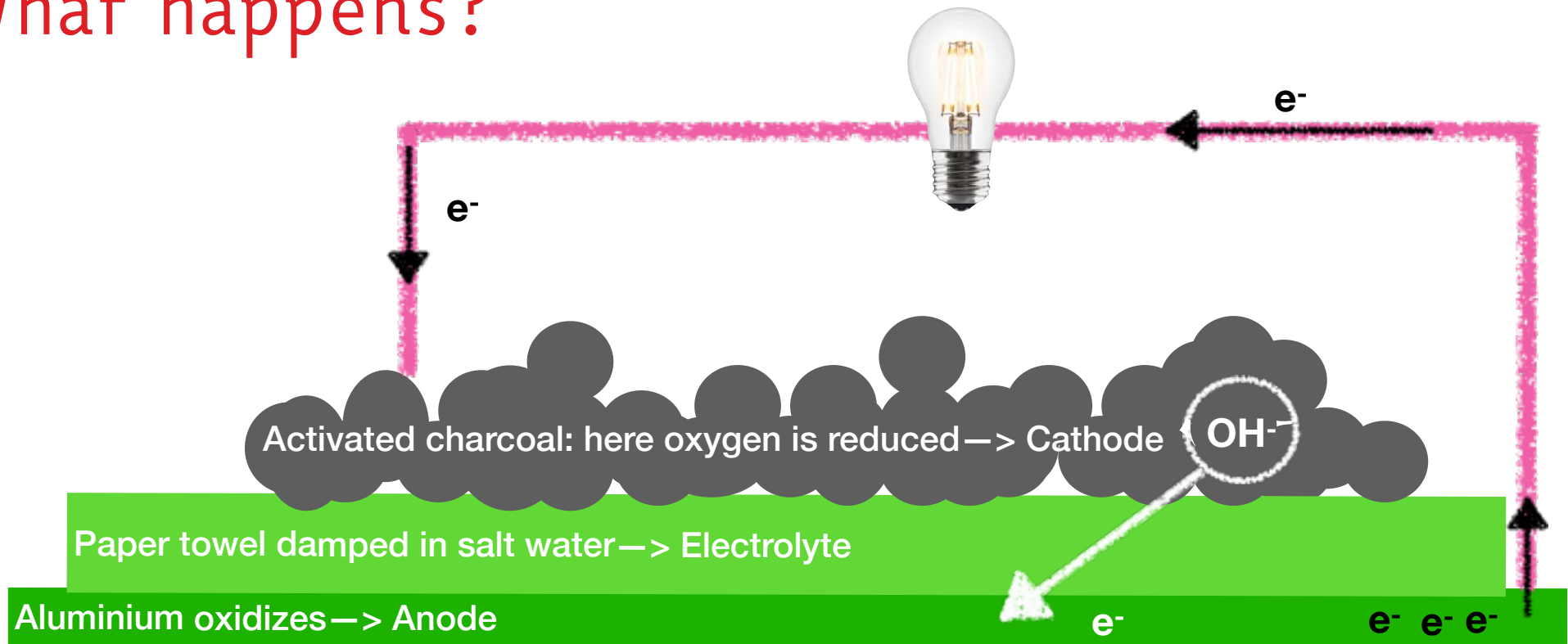
- Aluminium foil (10 X 15 cm)
- Activated charcoal (available at aquarium supply stores)
- A saturated salt-water solution
- Paper towels
- 1,5 Volt electric motor (it can be easily found online or it can be taken from a dismissed battery-powered toy) or a LED
- A flat container (it can be a plastic lid or a ceramic dish, for example)

To Do and Notice

- Prepare a saturated salt-water solution: dissolve salt in a small cup of water until some salt remains on the bottom of the cup. Your solution is ready
- Fold a paper towel into fourths and dampen it with the solution
- Place the aluminium foil at the bottom of your container
- Place the towel on the foil
- Add a spoonful of activated charcoal on top of the paper towel, then pour some of the salt-water solution onto the charcoal until it is dampened throughout.
NOTE: make sure the charcoal doesn't touch the foil directly!
- Connect one of the poles of your electric motor to the aluminium foil. Firmly press the other one on the pile of charcoal.

What happens?

What happens?



What happens?

Copy and paste this link on your browser:

<https://vimeo.com/407573150>

