

PRODUCING HYDROGEN WITH THE SPRINT CAR ELECTROLYZER

Use the image of the ruler as a guide to cut tubing to the approximate sizes shown.

Attach the tubing to the respective pieces.

Shown top to bottom:

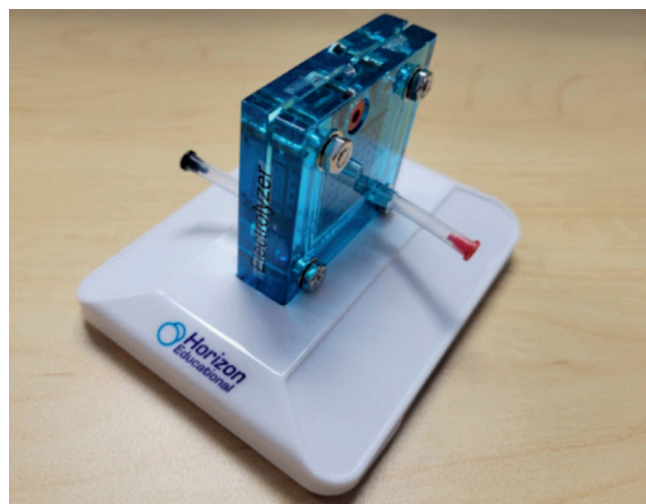
- Syringe
- Green Fuel Tank
- Male Valve
- Black Pin
- Red Pin
- Purging valve (used on fuel cell)
- Female Valve



Place the electrolyzer on the base.

Connect the tube with the black pin to the bottom nozzle on the side with the black plug (hydrogen).

Connect the tube with the red pin to the bottom nozzle on the side with the red plug (oxygen).



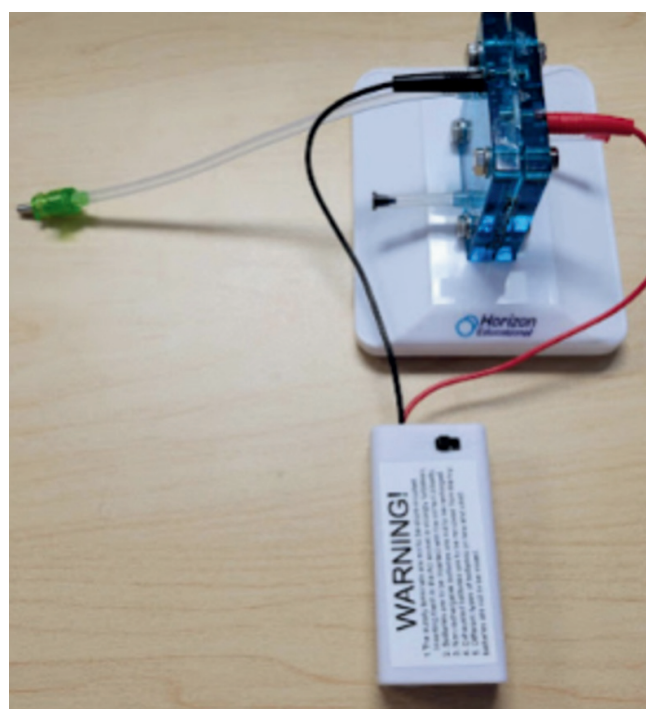
Connect the tube with male valve to the top nozzle on the hydrogen side of the electrolyzer.

Using a small phillips head screwdriver remove the battery pack cover and insert two AA batteries.

Plug the black lead from the battery pack in the black plug.

Plug the red lead from the battery pack into the red plug.

Ensure the battery pack remains off in this step.



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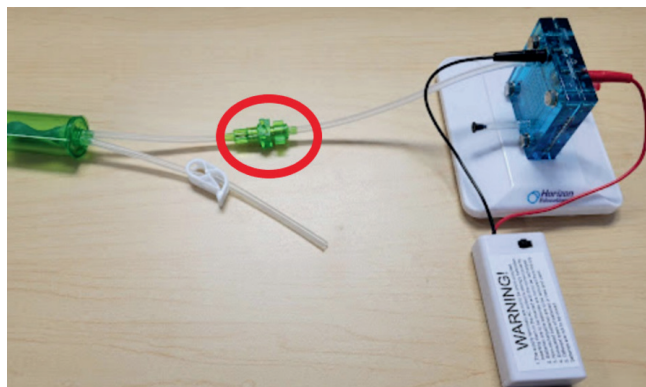
Connect the tube with the clip to one of the nozzles on the small green fuel tank.

Connect the tube with the female valve piece to the other nozzle on the small green tank.



Connect the male and female valve piece and twist.

Close the clincher to prevent the gas from escaping.

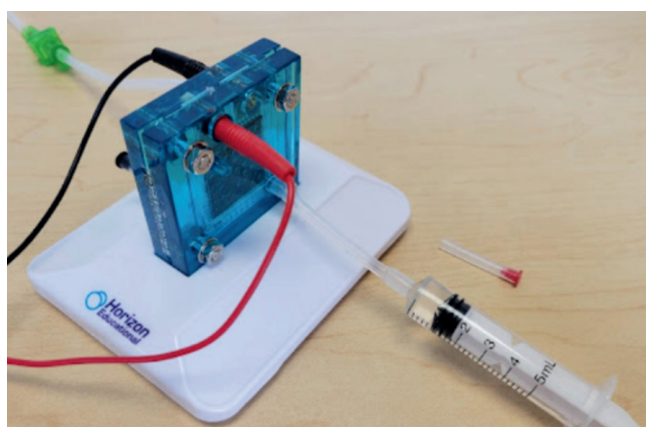


Draw one ml of **distilled** water into the tube of the syringe. Do not use tap water.

Remove the tubing with the red plug and attach the syringe tube to the nozzle.

Inject the distilled water into the electrolyzer. Some water will come out of the top nozzle.

Reconnect the tubing with the red plug to the nozzle when you are done.



Turn the switch on the battery pack from “off” to “on”.

Your balloon should fill with hydrogen gas as shown in the picture!

Leave your hydrogen stored for now so we can use it to power the Sprint Car.

