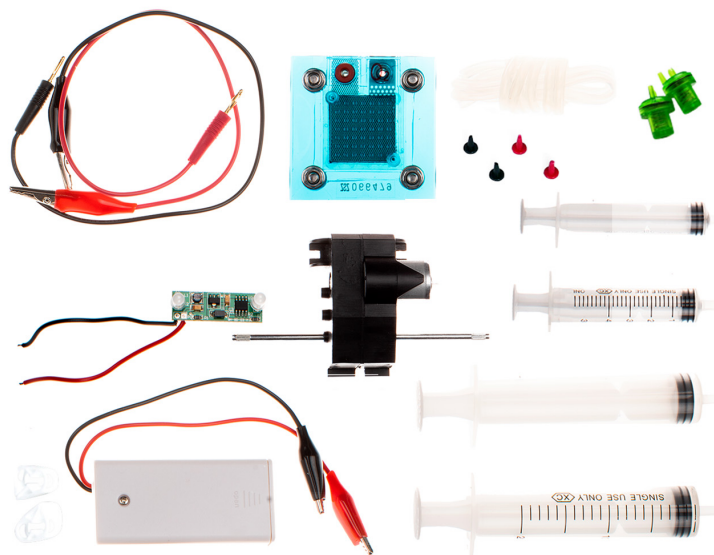


**We provide the hydrogen-fueled energy.  
You provide the ingenuity.**

**RESK-02B**



## DIY (Do it yourself) Fuel Cell Science Classroom Pack

What can you do with the DIY Fuel Cell Science Classroom Pack from Horizon? Whatever you can dream up. Everything you need to split water and use its hydrogen to generate electricity is included. What that electricity powers is up to you. Use our included activity guide or come up with your own ideas. How will you shape the future of energy?

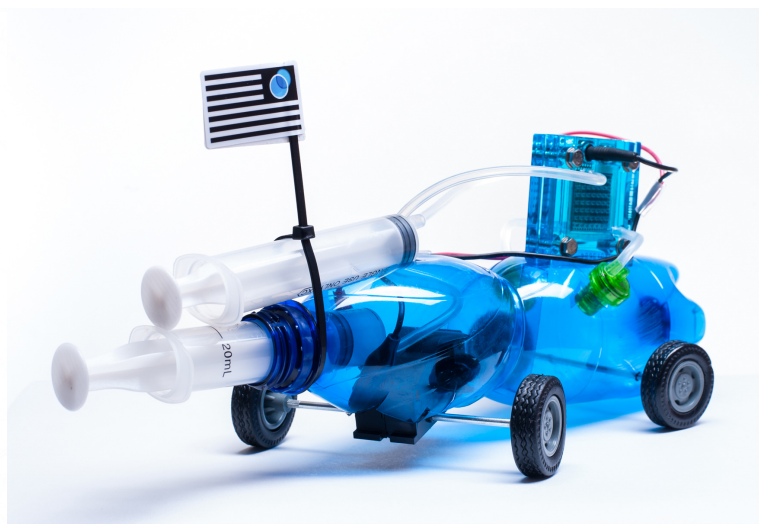
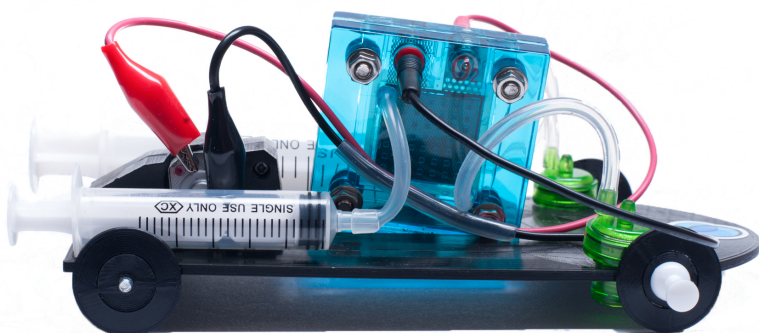
## CURRICULUM

- Earth/Environmental Science:
- Human Impacts on Global Climate
  - Alternative Energy Sources
- Physics:
- Energy Matter
  - Electricity
- Chemistry
- Reactions: Catalytic and Redox
  - Alternative Energy Sources

## FEATURES

- ✓ STEM in a creative and open-ended way
- ✓ All-in-one electrolyzer and fuel cell
- ✓ Activity guide

**Serves 24-36 students**  
**Free online curriculum resources**



## INCLUDED COMPONENTS

- ✓ 12 Reversible fuel cells (Transparent or blue)
- ✓ 12 Sets of silicone tubing
- ✓ 24 (5ml) Syringes
- ✓ 24 (20mL) Syringes for storage of Hydrogen and Oxygen
- ✓ 12 LEDs with bare PCB board
- ✓ 12 Sets of crocodile/banana wire
- ✓ 12 Sets of red and black pins
- ✓ 12 Battery packs
- ✓ 12 Motors (required input 0.6V)
- ✓ 12 Gearboxes
- ✓ 24 Pressure relief valves
- ✓ 24 Plastic clamps
- ✓ 12 Bags to protect fuel cell
- ✓ 1 Blue box

## SPECIFICATIONS

### Electrolyzer

Dimensions	54x54x17 mm
Total weight	67.7 g
Input Voltage	1.8 V ~ 3V (DC)
Input Current	0.7A
Hydrogen production rate	7 ml/min
Oxygen production rate	3.5 ml/min

### Fuel Cell

Output Voltage	0.6V (DC)
Output Current	360 mA
Power	210 mW

## PACKING INFORMATION

Unit Box Length (cm/in)	44 / 17.32
Unit Box Width (cm/in)	33 / 12.99
Unit Box Height (cm/in)	23 / 9.06
Unit Volume (Litres/Cubic Meters)	33.4 / 0.033
Unit Box Weight (kg/lbs)	2.5 / 5.51
Case Pack Length (cm/in)	44 / 17.32
Case Pack Width (cm/in)	33 / 12.99
Case Pack Height (cm/in)	23 / 9.06
Case Pack Volume (Litres/Cubic Meters)	33.4 / 0.033
Case Pack Weight (kg/lbs)	2.5 / 5.51

\*The cartons' size may vary between 1-2 cm.

