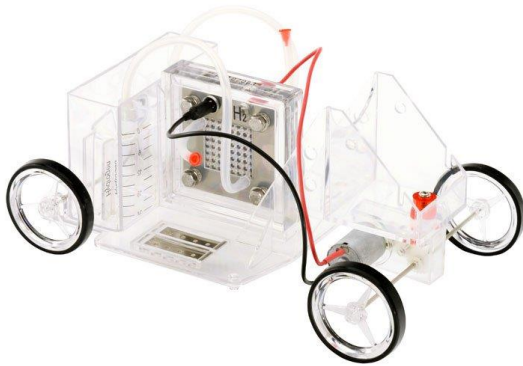


Fuel Cell Car Exercise



In this activity, you will learn about using water for energy.

The vehicle is powered by the chemical reaction and energy from the sun. The fuel cell will split the water into the two components and re-combine them when reverse it. You and your team will learn how to distinguish different types of energy.

- ❖ Draw a diagram of how you think the energy is converted from water into fuel. Show how you think the energy conversion process is occurring in the car.

- ❖ What are the two tanks on the back meant to do? **Hint:** What are the elements of water?

- ❖ Ask for help to add the distilled water to the car

- ❖ How much power did the car use?
 - How far did the car travel?
 - Remember that $\text{Power} = \text{Force} \times \text{Distance/Time}$

 - What is the Average Velocity (Distance/Time)?

 - What is the acceleration of the system (Average Velocity/Time)?

 - If the vehicle has a mass of 0.3 kg, what is the Force that the vehicle produces?

 - What is the Power out of the system?