Electricity is “created” when certain chemicals react together. We use chemically-made electricity to power many machines from flashlights to a watch or sometimes a car. Yes, there are cars that run on electricity! The devices that store electricity are called batteries. Electricity can also be used to produce chemical changes.

Water is a simple chemical made from two gases -- hydrogen and oxygen. Every molecule of water has two atoms of hydrogen for every atom of oxygen. H₂O is the chemical formula for a molecule of water.

If an electrical current is passed through water between electrodes (the positive and negative poles of a battery), the water is split into its two parts: oxygen and hydrogen. This process is called electrolysis and is used in industry in many ways, such as making metals like aluminum. If one of the electrodes is a metal, it will become covered or plated with any metal in the solution. This is how objects are silver plated.

You can use electricity to split hydrogen gas out of the water similar to the process called electrolysis.