

## REcharge Labs Solar Fountain

**Objectives:** As a result of this lesson, students will understand how solar energy is transformed into electricity that we can use.

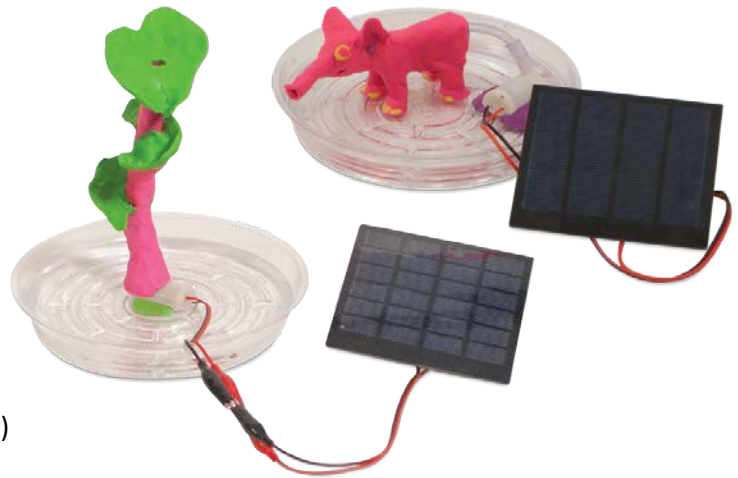
**Students will use solar panels to power a small water pump and build a functioning fountain. In doing so, they will learn how a solar panel works, collect data, and test variables as well as apply their observations to their engineering process as they improve their designs.**

**This kit includes:**

- Solar panels
- Water pumps
- Trays/bowls
- Plasticine/clay
- Small tubing (1/8")
- Medium tubing (1/4")
- Large tubing (3/8")

**NOT included:**

- Scissors
- Water
- Towel
- Lamp (if you do not have good sunlight)
- High wattage incandescent bulb (100 watts or higher)
- Compact fluorescent bulb (optional)
- LED bulb (optional)
- Ruler
- Protractor
- Color acetate sheets (optional)
- Alternative fountain building materials such as plastic bottles, large basins for water, more plasticine, straws, etc.



**Additional Equipment Needed:**

- Lights (or sun)

\*Any materials that are used, lost or broken during classrooms use, must be replaced before returning the kit. Replacement parts can be bought from REcharge Labs.