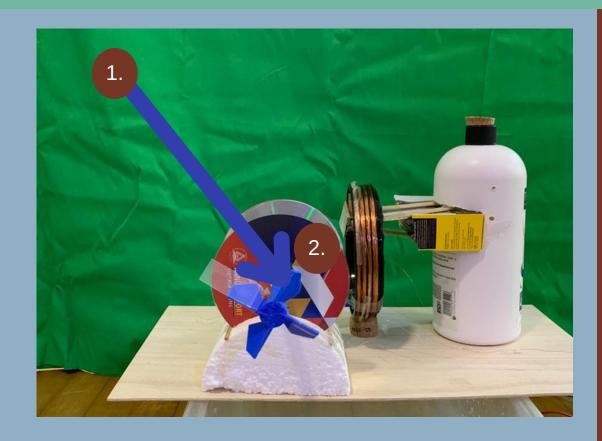
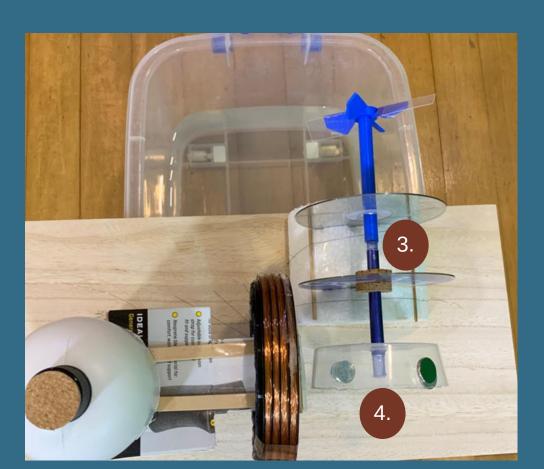
Electromagnetic Induction Device: "SPARKY"

Water falls from above and strikes the blades of the turbine.

This causes the turbine to rotate.

GPE of water -> KE of water -> KE of turbine





3.

The turbine **rotates the axle**, which is held in place by 2 CDs.

The axle rotates a circular plastic bowl. Two neodymium magnets are attached to the bowl.



The rotating magnets create a change in magnetic flux linkage.

According to Faraday's Law, the magnitude of EMF induced in a circuit is proportional to the rate of change of magnetic flux across the circuit.

EMF is induced in the coil of copper wires. The EMF is measured using a multimeter.