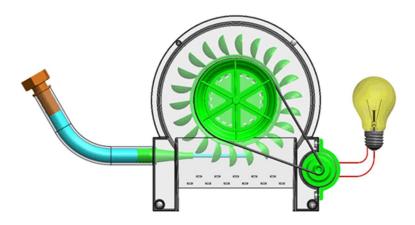




## **Water Turbine Exercise**



In this activity, you will measure the Energy into the water turbine and power produced by the water turbine.

## Remember:

- 1. This is a team project
- 2. Take proper care of the materials provided
- 3. Ask questions
- 4. Have fun ©
- What type of energy is going into the water turbine?

❖ How much energy is going into the water turbine if water comes out of the nozzle at 8 m/s with a flow of 0.15 kg/s? Show your calculation below:





*	What type of energy is coming out of the system?
*	How much energy is coming out? Using the voltmeter find the Voltage and Current that the turbine produces. How much power is produced? Remember Power = Voltage x Current
*	Compare the energy in and the energy out of the system. Which one is bigger?
<b>*</b>	Why is it that one of the energies is bigger than the other? Where did the energy difference go?