

How would you like to own a Nuclear fueled Gravity Engine?

Well guess what? Such a thing already exists and it is called the PowerWheel!

By Roy Bentley



The PowerWheel was designed to be the foundation tool for the instruction of Energy and Physics. To provide one demonstration device that will aid the student's development from elementary school to college and beyond! The PowerWheel is a device that is made to be handled by the student. It is transparent and the basic points of operation are clearly visible. The PowerWheel does not intimidate...it invites!

Let's analyze one of the many demonstrations that are available using the PowerWheel as your discussion tool.

Every student regardless of age has been using a faucet many times a day for years.



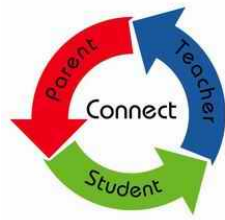
The student is confident that they know all here is to know about faucets...Faucets deliver hot and cold water at various rates depending on how you set the taps...what else is there? This is a very important starting point as the teacher introduces the PowerWheel and shows the class that along with the water, the faucet is also delivering a considerable amount of usable power. The PowerWheel will help them understand what considerable power is there!

Every student has an array of portable electronics, from smart phones to laptops...and if students have one thing in common, is that they are all looking for the next charging opportunity.



How about a tool that the teacher can use to show the class that the faucet can develop sufficient power to charge any device that is battery powered. By hooking the PowerWheel to that simple faucet a whole array of lessons becomes available...including how to power up your portable devices! The teacher has taken an everyday item (the faucet) and by using 4 lbs. of plastic and a considerable amount of engineering they have a created a Eureka moment. This is the embodiment of the S.T.E.M. program!

We have found that over 90% of the students that view the PowerWheel/cell phone demonstration take this new appreciation of faucets and energy and share it with their families. In other words, the teacher has not only educated the student but also the parents...and this goes an incredibly long way in building that strong partnership between the classroom and the home.



The simple demonstration of how one can use the faucet to charge a cell phone is an extremely powerful lesson on the principle of discovery. Are there other sources of energy in our world that we have overlooked? Have we really understood what the source of power is when using the faucet? Let's take a look as to how "Hydro-Power" actually works.

Hydro-power accounts for 10% of the total electricity produced in the USA, it accounts for 96% of the power created by a renewable resource. Hydro-power produces no emissions and is our cleanest/greenest source of power.

"Hydro-power" or water power is a major misnomer as the power does not come from the water. The PowerWheel would run equally as well on milk or wine. The PowerWheel requires a free flowing liquid but the source of energy is actually **gravity**. The PowerWheel is a "Gravity Engine".

If you think back to our Planet's water cycle, where the energy from the sun causes evaporation that lifts water into the atmosphere forming clouds that produce precipitation (which is actually gravity pulling the water back to the earth). It would be more accurate to call the PowerWheel "a Solar supplied Gravity engine" or as the sun is a nuclear reaction it is even more accurate to refer to the PowerWheel as a "**Nuclear Fueled Gravity Engine**". If these concepts are made clear to the student then we built a solid foundation for future study.

The PowerWheel is applicable for the following subjects:

Water Cycle	Kinetic Energy	Conversions of AC to DC
Solar Power	Mechanical Energy	Generators
Gravity	Radiant Energy	Electrical Load
Mass	Electrical Energy	Electrical Resistance
Hydrodynamics	Chemical Energy	Energy Storage
Pressure	Electroplating	Renewable Energy
Volume	Electrochemistry	Sustainability
Turbine Design	Conservation	Gravity Engine
Gear Ratios	Engines (General)	Flywheel Energy Storage
Energy Conversions	Discovery	Watts
Potential Energy	AC Electricity	Volts
Kinetic Energy	DC Electricity	Water Use
	Incandescent Lighting vs.	Heating and cooling with electricity
	LED Lighting	