

# WATER WHEEL

Learn how to construct a water wheel with household materials. Examine how energy can be created using liquids as a source of power.

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Please note: This activity can be simplified to cater to younger learning levels.

## What is a water wheel?

Water wheels are not as efficient as other sources that generate power. However, they are still very effective. A water wheel is a large wheel that turns when water is poured over it. The wheel spins to produce energy for electricity or to lift objects.



## What is hydropower?

Water power or hydropower is power from the energy of falling or running water. This energy can be harnessed for other purposes.

## What is renewable energy?

Hydropower is the nation's largest source of renewable energy. Renewable energy is energy that comes from a source that is not depleted when used. This includes energy from sunlight, wind, and water.

## Key Vocabulary

**Hydropower** - Energy from falling or running water

**Hydroelectric** - Generation of electricity using flowing water

**Renewable resource** - Energy that is not depleted when used

### Sources

Content - <https://www.siemensstemday.com/educators/activities>

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## Materials Needed for Activity

- Sink or large plastic tub
- Tap or plastic bottle filled with water
- Scissors
- Wooden barbecue skewer
- Variety of small weights (stones, pennies, lego bricks etc)
- Plastic cups (alternatively you could use a variety of lids from sprays etc.)
- Strong sellotape
- Paper plates (alternatively you could cut out two circles from a thick piece of cardboard)



## Instructional Video

## Extension Activity

Explore how other natural resources can be used as power. Learn about topics such as solar power, wind power, and biofuel.

### Sources

Video - <https://youtu.be/HUaaFE8regs>

Images - <https://www.pinterest.co.uk/pin/303218987413380410/>

Content - <https://www.siemensstemday.com/educators/activities>