

Aii Virtual Classroom

Grades 1-4

There is so much happening in the world around you, and students like you can be a part of it! Do you want to be an inventor some day? Maybe even the president? Get started by learning the basics about technology, innovation, and infrastructure!



What is Electricity?

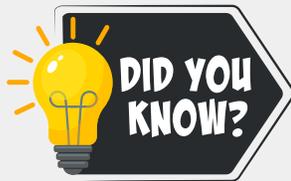
Aii educates to encourage future leaders and innovators. This lesson will encourage kids to think about how electricity works in their home.



Time: 10 minutes

Materials: Computer, note pad

Action: Read and learn!



Electricity travels at the **speed of light**

The U.S. surpassed **2 million** solar system installations

Your TV uses electricity even when it's **turned off**

There are three sources of energy to produce electricity:

These are **fossil fuels**, which includes natural gas, oil, and coal. There is **nuclear energy**. There is also **renewable energy** which includes hydropower, solar power, winds, and trees.

How do these methods translate into real-life examples?

Fossil Fuels are the world's primary energy source. Power plants burn coal or oil to create heat, which is then turned into steam, which drives turbines that generate electricity.

Nuclear Power comes from splitting atoms. Nuclear power plants heat water to produce steam, which drive turbines that generate electricity.

Renewable energy is derived from natural processes that are replenished constantly. For example, solar power is generated by the sun, which never runs out.

Look up one of these three methods. In 3-5 sentences, write about how it works in more detail. Include a geographical location of where one or more exist!