

Talcott Mountain Science Center

Topic Green Energy - Wind

Home School Science

Instructor Mrs. Roberts

Home Links

Date Sept. 22, 2023

Here's some information about the activities your student did with us. Links at the bottom will help you explore further. Enjoy!

What did we do (content, skills, data collection)?

We set up an experiment where we collected data in 2 rounds of 6 trials each to determine how to configure a wind turbine to generate the most power efficiently. We then assembled miniature individual turbines that students could bring home.

How did we do it (materials & methods)?

We split into groups, each group assembling and testing a wind turbine. We measured the angles the turbine blades were at and used a fan to make them spin. We used multimeters to record how much power was being generated. We compared turbines with 2 blades to turbines with 6 blades to determine if more blades meant more power.

We then took what we learned and used it to build miniature turbines to power small LED bulbs.

Where can we find out more?

Energy Kids - Renewable wind: <https://www.eia.gov/kids/energy-sources/wind/>

Alliant Energy Kids: <https://www.alliantenergykids.com/renewableenergy/windenergy>

National Geographic Video: <https://education.nationalgeographic.org/resource/edu-wind-turbines/>