

## CWSF 2019 - Fredericton, New Brunswick



### Joshua Hewko, Mitch Davis

#### Which piezoelectric crystals produce the most electricity?

**Challenge:** Energy

**Category:** Intermediate

**Region:** Peace Country

**City:** Peace River, AB

**School:** Glenmary School

**Abstract:** In our experiment, we tested how much voltage piezoelectric rocks would produce when put under certain amounts of force. To do this we dropped a weight onto multiple of these rocks from different heights to see how much electricity they produced at different levels of force.

#### Biographies

Joshua - My name is Joshua Hewko. I am in grade 9 French Immersion at Glenmary School in Peace River, Alberta. I really enjoy learning about all areas of science. Some of my hobbies are skiing, swimming and reading. I also enjoy going camping and fishing. In my free time I play many of different types of games such as board games, video games and card games. At my school, I have received honour roll and at the Peace Regional Science Fair, our project won the excellence award and gold medal for the Physical, Earth and Chemical Science category. We came up with our project's premise after researching piezoelectricity and finding it difficult to find inf...

Mitch - My name is Mitch Davis, I'm a regular grade 9 student. I go to Glenmary school in Peace River Alberta, I enjoy researching wars and military vehicles and equipment. In the past I got 100% on my grade 6 achievement test so maybe I've got a thing for science. I was inspired to do this project from the internet, I was researching topics for science fair and I found out about piezoelectric materials. It was very hard for me to find out about how to create the electric field though so that's how it started. In the future I would like to test a variety of materials and forces to see what the best combination is. My advice for students who would lik...

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