



Colorado Science and Engineering Fair

2025 Individual Project Abstract Form

Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.

Title of Project: Is Light Made Up of Waves?

Finalist's Name: Fallyn Gregersen

School and City: Wiggins Middle School, Wiggins

Sponsor's Name: Brenda Gregersen

Category: Physics & Astronomy

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

The purpose of this project was to prove that light was made up of waves. I hypothesized that light was made up of waves. I hypothesized that because of how light behaves and of evidence explaining it.

This experiment involved taking three stands and clipping three sheets of polarized film in a line. Then at one end have a light meter and the other a flashlight. You then move the middle film sheet and observe how the number of lumens go up and down based on the angle of the middle sheet.

The data I collected from this experiment did prove my hypothesis. My hypothesis was proven right because if light moved in a straight line, it would not be able to bend itself past the blockage.

These findings lead me to believe that light is made up of waves. This is good for me to know because it's an important part of understanding the universe. Polarized film sheets are also used on phones and sunglasses.

I hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. I also attest that the above properly reflects my own work.

Finalist's Signature:

Date:

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with you Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**