

# 2025 Falls Church High School Science Fair Winners

## Biology

### 1st place

Zachary Bloom and Binh Do  
The Effect of Stimulants on Cockroach Cognitive and Physical Ability

### 2nd place

Aslesha Gurung and Celia Winter  
"OW! That Hurts!": How Does Sensory Stimuli Affect Human Pain Perception?

### 3rd place

Andrei Daquioag and Jayanth Yelamanchili  
The Effect of Personality on Video Game Preference

### Honorable Mention

Emma Hopkins  
The Effect of Different Pillowcase Textile on Bacterial Growth

## Chemistry

### 3rd place

Khue Vu and Johnson Escobar Juarez  
Ethanol's Effect on Acetic Acid Bacteria Growth in Bananas

### Honorable Mention

Charlotte Henry  
The Effect of Active Ingredients in Sunscreen on UV Protection

Isaiah Lawal and Griffin Wishrad  
Which Citrus Fruit Makes the Strongest Electrochemical Cell

# Environmental Science

## 1st place

Josephine Huynh

The Effect of Wind Turbine Blade Shapes on the Amount of Electricity Produced in Volts

## 2nd place

Ali Lieberman

The Effect of Water Purification Method on the Purity of Water

## 3rd place

Angelina Taimouri

The effect of the presence of organic matter on the synthesis of electrical energy by microbial fuel cells.

Sydney Glenn

The Commotion in the Ocean

# Physics

## 1st place

Cybil Jayson

The Effect of Ankle Supports on the Amount of Torque Needed to Turn an Ankle

## 2nd place

Florian Demuth

The effect of a tennis ball's temperature on its elasticity

## 3rd place

Chengzi Lin

The Effect of String Material Intonation

Mason Beasley

File Compression softwares and their complexities