

Junior Division Finalists

*Testing What Substances Will Help a Mix of Berries and
Leaves Compost the Fastest*

Julia Toyer

Harrisburg Academy

Cell Phone Radiation Barriers: Do They Really Work?

Parimala Rajesh

Cumberland Valley Good Hope Middle School

*The Effect of Surface Temperature and Age on the Formation
of Latent Fingerprints*

Rachel Singley

Susquenita Middle School

Vitamin C: Is It Worth the Squeeze?

Ben Frantz

St. Theresa School

Fat in Foods and Its Effects on Your Body

Varnika Udhayakuma

Cumberland Valley Good Hope Middle School

Senior Finalists

Planariidae as a Model System for Studying Neurological Aspects of
Allergy Response: Year Three of an Ongoing Study

Cheyne Warner

Central Dauphin HS

Beetles Beware: Effects of Various Biopesticides on *Callosobruchus*
maculatus Behavior

Adele Shirmer

Susquenita HS

Aerodynamic Bicycle

Christian Gasdaska

Susquenita HS

Developing and Simulating Self Driving Car A.I. Without Need for
Traffic Lights

Alec Warren and Liam Douglas

Harrisburg Academy

Taking a Step Toward Solving the Foot Crisis: Reducing Joint
Impact with Magnetic Levitation

Dev Lochan

Cumberland Valley HS

Developing a Mathematical Model for Tumor Progression in Breast
Cancer

Aayushi Patel

Middletown HS

The Effect of Black Carbon on the Potency of Antibiotics

Praneeta Bandi

Harrisburg Academy