

## Biological Sciences

1<sup>st</sup> Riya Patil

The Effect of Decibel Level on the Rate of K12 E. coli Growth

1<sup>st</sup> Alec Carmody and Max Purtill

The Effect of Different Light Spectrums on Plant Height

2<sup>nd</sup> Oskar Binayee and Sanjay Modak

The effect of salt concentration on toxicity to flower seeds

3<sup>rd</sup> Safiya Hersi

The Effect of Compost on Plant Longevity

3<sup>rd</sup> Phoebe Wilkes and Nora Cunningham

The Effect of Magnetism on Planarian Regeneration

HM Laura Truong

The Effect of Different Types of Aldohexoses on Mold Growth

HM Daphne Nguyen and Eden Burton

The Effect of the type of bread on the amount of time it takes bread to mold

HM Maddie Kenkel and Taryn Heuvelman

What is the best method to prevent browning in avocados?

HM Isabella Phillips and Maia McAllister

Algae Experiment

HM Adam Mokatrin and Lucas Lourenco

Do fruits or vegetables have more Vitamin C?

## Chemistry

1<sup>st</sup> Alexander DeDios

The effect of salts on the boiling point of water

2<sup>nd</sup> Ngoc Thao Nhi Nguyen

The Effect of Different Type of Pencil Lead on Energy Conductivity

2<sup>nd</sup> Nurame Akiso and Yohana Margen

What is the solubility of different drugs?

3<sup>rd</sup> Abby McCall

The effect of UV rays on the pH level of Nuun sports drink tablets

HM Dan-Uyen (Winnie) Tran, Victor Simionato, and Emiliano Mercado

The Effect of Iron Filing Amount on the Temperature of Hand Warmers

HM Angela Witt Leiva, Evelyn Keefer, and Emily Keefe

The effect of lemon-water solutions on the oxidation of an apple

## **Earth, Energy, and Environmental Sciences**

1<sup>st</sup> Ava Liu and Isabella Wanchick

The effect of different types of sunscreen on compost worms

2<sup>nd</sup> Anson Nguyen and Justin Siek

Economy Friendly and Biodegradable Material Alternatives to Plastic Straws

2<sup>nd</sup> Asma Ayoub

The effect of the type of salt water on plant growth

HM Emely Valdez and Angelin Quinteros

The Effect of Different Locations on Nitrogen Soil Levels

HM Michael Le and An Nguyen

What is a biodegradable/cost effective material to replace plastic in straws

## Engineering and Material Science

2<sup>nd</sup> Zoe Bogan

Measure how much weight can be supported by sticky note pads with interleaved pages

2<sup>nd</sup> Liza Plis

The Effect of Vitamins on the Biodegradation of Microfibers

2<sup>nd</sup> Alexander Obando

The effect of model coastal protection compositions on flood waves

2<sup>nd</sup> Fabricio Antezana

The Effect of Temperature on Different Motor Oils Viscosity

3<sup>rd</sup> Tiffany Tran

The Effect of Ultraviolet Rays on Different Clothing Materials

3<sup>rd</sup> Shri Bala

Hurricanes vs. Homes

HM Shaan Bhaskar and Sam Ross

Different recyclable materials effectiveness on blocking the amount of sound in decibels

## Physics and Astronomy

1<sup>st</sup> Robbie Potter

The Effect of Temperature on the Strength of a Ferrite Magnet

1<sup>st</sup> Leo Miracle

The effect of weight and height on the time it takes a pendulum to complete one full swing and also come to a stop

2<sup>nd</sup> Cathy Le

The Effect of the Size of Dimples on the Distance of a Golf Ball

3<sup>rd</sup> Zoltan Bundics

The Effect of Inflation Pressure on Rubber Playground Ball Speed

3<sup>rd</sup> Ethan Nguyen, Pradeep Ravi, and Aaron James

The Effect of Model Car Surface Type on Speed of Car

3<sup>rd</sup> Kashaf Baig

The Effect of Surface Area on Friction

HM Tina Pham

The Effect of Fabric Content on Absorption of Thermal Energy

HM Maya Benke

How does Temperature Effect the Lifespan of a Battery?

HM Ruth Hofstetter

The effect of temperature on the pitch of a clarinet