

March 5, 2023

This weekend, fifty-two Council Rock students presented their STEM research projects at the Pennsylvania Junior Academy of Sciences Regional Competition. **Thirty-eight students** received a 1st Award and qualify to enter into the State Level PJAS competition, which will be held at Penn State in May. Note – students with a 1st\* received **PERFECT SCORES!!!**

Congratulations to all!!!

**Council Rock High School - North (Grateful, Gould)**

Simona Avetyan	1st	Jason Loh	1st
Emily Eayre	1st*	Breanna Micciche	1st
Arya Honawar	1st	Marianne Moise	1st
Akshay Honawar	1st	Arnav Rajesh	2nd
Vidya Jayaprakash	1st	Krithi Ramnath	1st
Naievaiddya Kaushik	1st	Lena Szeto	2nd
Ahjung Kim	1st	Alex Tao	1st
Hannah Knapp	1st	Aaron Temmer	2nd
Hansika Kodavali	1st	Cyberly Tsai	1st
Kelly Lao	1st		

**CR South (Mohl, Vierick)**

Sahana Ankam	1st	Kate Pavlovcak	1st*
Taylor Arnosky	1st	Julia Rhodes	1st*
Jack Pavlovcak	2nd	Alba Sinani	2nd

**Holland MS (Krempa, Versace)**

Robert Carroll	1st	Andrew Mohl	2nd
Elizaveta Kutyeva	2nd	Vishwa Narayanan	1st
Alex Mogilyansky	2nd	Sarah Xue	1st

**Newtown MS (Curry, Holm, Troxel)**

Avi Abrol	1st	SreeNithya Allampally	1st
Aravind Chandrashekar	1st*	Judy Choi	2nd
Colin Funk	2nd	Jack Herres	1st
Zeal Kansara	1st	Sharvil Kapure	3rd
Hana Kwon	1st	Dillon Lind	1st
Elizabeth Logue	1st	Morgan Marshall	1st
Darcy McCullough	1st	Kyle Meyers	1st*
Anuj Patel	1st	Justin Peng	1st*
Neya Sathiya Ganesh	1st*	Tharunya Shoban	3rd
Ved Vatsya	2nd	Xinni Wang	1st
Grace Zhang	2nd		

**And, you won't believe the variety of projects they are working on! Just keep reading!**

**Council Rock High School - North**

Simona Avetyan	The pH Sensitivity of Carboxymethyl Cellulose Hydrogels
Emily Eayre	The Impact of Saprophytic Fungus on Eggplant Growth and Soil
Arya Honawar	Is E-cigarettes Use/Vaping Associated with Heart Disease?
Akshay Honawar	Impact of COVID-19 on Prostate Cancer Screening in the US
Vidya Jayaprakash	Which Gas is the Source of Global Warming?
Naiveidya Kaushik	Effects of Hydrophobicity in Water Wave Analog
Ahjung Kim	Inducing Microalgal Lipids for Biodiesel Production
Hannah Knapp	The Consistency and Accuracy of a Handmade TC-1 Seismometer
Hansika Kodavali	The Impact of Pine Needles on Compost
Kelly Lao	Early Detection of Major Depression in Adolescents
Jason Loh	The Effect of Air Resistance on a Flywheel
Breanna Micciche	Using Neural Networks to Detect Sound
Marianne Moise	Long Term Effects of Covid
Arnav Rajesh	Soil Productivity and Parent Material
Krithi Ramnath	Pandemic Impact Simulated with Object Oriented Programming
Lena Szeto	The Effect of Smoking on the Risk of Lung Cancer
Alex Tao	Long Term Effects of Afforestation in Peat Bogs
Aaron Temmer	Effect of Different Bacterial Disinfectants on E. Coli Growth
Cyberly Tsai	A Novel Approach to Underwater Mobility

**Council Rock High School - South**

Sahana Ankam	Effect of Alcohol Based Hand Sanitizers on S. Marcescens
Taylor Arnosky	Bacteria Growth Inhibition using Hand Sanitizers
Jack Pavlovcak	The Super Scientific Study of Size and Speed
Kate Pavlovcak	Effects of Dextromethrophan on mobility and photosensitivity
Julia Rhodes	The Effects of Regeneration on Memory in Planarians
Alba Sinani	Growth of Bacteria on a Variety of Metals

### **Holland Middle School**

Robert Carroll	Does Background Radiation Appear Randomly
Elizaveta Kutyeva	The Science of Splitting Water: Electrolysis
Alex Mogilyansky	Dancing Blue Flame
Andrew Mohl	Don't take my curd for it: Which fruit makes the best cheese
Vishwa Narayanan	Random Password Generator
Sarah Xue	Activated CO <sub>2</sub> : Which Particle Size Works Best for Filtration

### **Newtown Middle School**

Avi Abrol	Soil Moisture Sensor
SreeNithya Allampally	Preventing SIDS: Creating a Pulse Oximeter for Babies
Aravind Chandrashekar	What is the Most Efficient Programming Language?
Judy Choi	Relative Humidity Relative to Rain
Colin Funk	Does salt and vinegar affect patina growth on pennies?
Jack Herres	Hydroponics vs Traditional
Zeal Kansara	The Physics of Artificial Gravity
Sharvil Kapure	How Does Color Affect Heating by Absorption of Light?
Hana Kwon	Is 1+1 Provable?
Dillon Lind	Paper Apeel
Elizabeth Logue	The Secure Egg Carton
Morgan Marshall	Exploring the Golden Ratio
Darcy McCullough	What type substrate allows for the best flow of groundwater?
Kyle Meyers	The Relationship Between Handedness and Career Fields
Anuj Patel	What Type of Liquid is Best for Plant Growth
Justin Peng	Which material absorbs the most sound?
Neya Sathiya Ganesh	How Does Density Affect the Speed of Light?
Tharunya Shoban	Hydroponics
Ved Vatsya	Nitrogen Fixation in Space Seeds
Xinni Wang	Which sports drink contains most electrolytes after diluted.
Grace Zhang	Testing Different Water Resources Using PH Level