

2021 Metro Richmond STEM Fair

Junior Division Category Results

Junior Botany

1st Place **Deepanshi Kumar**

The Effect of Tea Leaves (Camellia Sinensis) on Pea Plant (Pisum Sativum) Germination Time

2nd Place **Cameron Joyce**

The Effect of Radiofrequency Radiation During Phaseolus vulgaris Seed Germination on Subsequent Plant Growth

3rd Place **Aditya Banerjee**

The effect of houseplants on indoor air quality

Junior Environmental Sciences

1st Place **Vihaan Iyer**

The Effect of Different Water Purifying Tablets on Freshwater Quality

2nd Place **Aditya Badhrayan**

The effect of different concentrations of Sucralose on the Heart Rate of the Daphnia Magna

3rd Place **Renn Clark**

The Effect of Oxybenzone and Zinc-oxide Based Sunscreen on Juncus Inflexus in a simulated marsh environment.

Junior Microbiology

1st Place **Alice Zhang**

The inhibitive effect of Palmolive dish soap concentration on bacteria growth

Junior Chemistry

1st Place **Shriya Bandla**

The Effect of Material of Container on pH of Water

2nd Place **Sriram Darsi**

The effect of different types of sugars on the growth rate of yeast

3rd Place **Richard John**

The effect of types of metals on corrosion rate

Junior Math & Computer Science

1st Place **Camellia Sharma**

The Effect of Machine Learning Algorithms on Counting the Fish Population

2nd Place **Annie Yuan**

The Effect of Different Back-To-School Plans on the Spread of SARS-CoV-2

Junior Engineering

1st Place **Soumya Khadye**

The Effect of Rotational Speed on the Light Reflected by Parabolic Reflectors

2nd Place **Maxim Avrutin**

The Effect of Design of Solar Desalinators on the Amount of Desalinated Water

Junior Medicine & Health Services

1st Place **Ira Prakash**

The effect of various analgesic medications on its solubility in simulated gastric acid

2nd Place **Nishorgo Sarkar**

The Effect of Sugar Substitute and Glucose Concentrations on HepG2 Human Liver Cancer Cells

Junior Physics

1st Place **Tess Vithoukias**

The Effect of Different Materials on Reduction of EMF Radiation

2nd Place **Sanaya Bothra**

The Effect of Different Materials on the Absorption of Sound

3rd Place **William Lin**

The Effect of Different Facemasks on Particles of Colored Air

Junior Zoology

1st Place **Annabelle Van Saun**

The Effect of Silver Nanoparticles on the Death Rate of Adult Daphnia Magna

2nd Place **Samantha Lionberger**

Effect of Liquid Fertilizer on Lumbricus terrestris Growth

3rd Place **Addison Kofron**

The Effect of Color on Attraction to Food in Vanessa Cardui

Honorable Mention **Abhinav Gitta**

The Effect of Resistance of Different Types of Metals on Electrical Conductivity