

LRSEF- General Award Script - Middle School

Animal Sciences

3rd Place

Jack English - Saint Francis of Assisi, Louisville
Deer Collisions: Caused By High Parasite Loads?

2nd Place

Georgia Armstrong - Saint Francis of Assisi, Louisville
Microfibers Impact Mussel Filtration Rates

1st Place

Ella Diehl - Saint Francis of Assisi, Louisville
Exploring Noise Pollution Stress in Pollinators

Behavioral and Social Sciences

3rd Place

Ben Davis, Nicholas Fiorini - North Oldham Middle School
The Perfect Dunk: How Milk Factors Interact With a Popular Cookie

2nd Place

Shayla Reynolds - Brown School Science Fair
Effect of Time on Reading Comprehension

1st Place

Ella Spriggs-Dial - Saint Francis of Assisi, Louisville
How Does Trauma Impact Emotional Recognition

Biochemistry

2nd Place

Henry Peters - Saint Francis of Assisi, Louisville
Exploring The Effect Of Pesticides On Ascorbic Acid

1st Place

Margaret Beatty - Saint Francis of Assisi, Louisville
Does Commercial Pesticide Use Impact Trypsin Activity

Biomedical and Health Sciences

3rd Place

Angel Mason - Newburg Middle School
Dissolve the Pain: Drug Solubility

2nd Place

Chloe Nunn - Saint Francis of Assisi, Louisville
Exploring the Effects of Circadian Rhythms and Wound Healing

1st Place

Marianna Grabova - North Oldham Middle School
Electric vs. Manual Toothbrush Efficiency

Biomedical Engineering

3rd Place

Noor ismail, Maryam alsaadi - Nur islamic school
The Effect Of The Dark and Light On the Brain While Sleeping At Night

2nd Place

John Baldwin - Saint Francis of Assisi, Louisville
Weight Shifting Bed For Bed Sore Prevention

1st Place

Maci McCallon - Noe Middle
The Fidgy Chair

Cellular and Molecular Biology**3rd Place**

simon petruska - Saint Francis of Assisi, Louisville
exploring the use of a planarian model with anesthetics

2nd Place

Avery Ramsey - Saint Francis of Assisi, Louisville
Impact of Car Emissions and Electromagnetic Radiation on Stem Cell Behavior

1st Place

Katie Quinn - Saint Francis of Assisi, Louisville
Exploring the Impact of Atrazine on Childhood Learning

Chemistry**3rd Place**

Liam Amick - Saint Francis of Assisi, Louisville
Wastewater Dye Remediation with Natural Coagulants

2nd Place

Maxwell Holtgrave - Saint Francis of Assisi, Louisville
Exploring the Effect of Heat on Omega-3 Fish Oils

1st Place

Jack Mulvihill - Saint Francis of Assisi, Louisville
Using Kentucky Native Plants to Create Bioplastics

Computational Biology and Bioinformatics**3rd Place**

Erika Graham - Saint Francis of Assisi, Louisville
Is there a between fly ash and thyroid cancer incidents

2nd Place

Michael Schoenbachler - Saint Francis of Assisi, Louisville
Differential RNA expression in injured murine neurons

1st Place

Vedha Balamurugan - North Oldham High School
A new trend of type 2 diabetes in children: Genetic factors and improved treatment options

Earth and Environmental Science**3rd Place**

Daniel Jaso - Saint Francis of Assisi, Louisville
Exploring the Impact of Bridge Constriction on Stream Dynamics

2nd Place

Molly Baldwin - Saint Francis of Assisi, Louisville
Hanging by a Thread, Microfibers Impact on Sand

1st Place

Nick Harshaw - Louisville Montessori

Atmospheric Carbon Dioxide and Its Effect on the pH of Natural Water Systems

Embedded Systems**3rd Place**

Liam Kirby - Saint Francis of Assisi, Louisville

Wearable Air Quality Sensor

2nd Place

SWETHA SENTHIL NATHAN - Noe Middle

Smart Street Light

1st Place

Henry Murr - Saint Francis of Assisi, Louisville

Noninvasive Drug Testing via Raspberry Pi

Energy: Chemical**3rd Place**

Patrick Snider - Carrithers Middle School

Solar Energy vs. Fossil Fuels Which is Better?

2nd Place

Mary Jane Tevis-Orona - Carrithers Middle School

Rust removal with electrolysis

1st Place

Fiona Gallagher - Saint Francis of Assisi, Louisville

Use of Leaf Litter for the Production of Ethanol

Energy: Physical**3rd Place**

Jacob Mattingly - Brown School Science Fair

The Effect of Windmill Blade Shape on Power Generation

2nd Place

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Getting Energy From Mud

1st Place

Samuel Flynn - Saint Francis of Assisi, Louisville

Thermoelectric Potential of Asphalt

Engineering Mechanics**3rd Place**

Leo Osborne - Saint Francis of Assisi, Louisville

A New Filter Design for Reducing Lawn Mower Emissions

2nd Place

Matthew Burns - Walden School

Rocket Aerodynamics

1st Place

Olivia Long, Ella Pankonin - Saint Albert the Great School

The Science of Egg Dropping

Environmental Engineering

3rd Place

Xishan Ritchie - Carrithers Middle School
Fabric Softener and Flammability

2nd Place

David Renz - Saint Francis of Assisi, Louisville
engineering building shape to reduce urban pollution entrapment

1st Place

Lilia Biagi - Saint Francis of Assisi, Louisville
Electric Field Remediation of Microfiber Pollution

Materials Science

3rd Place

Sophie Fabing - Saint Francis of Assisi, Louisville
Strengthening Paper Bags with Polymer Coating

2nd Place

Oliver Carmack - Saint Francis of Assisi, Louisville
Biodegradable Plastics

1st Place

Isaac Stroud - Saint Francis of Assisi, Louisville
Creating Novel Fire Retardants

Mathematics

3rd Place

Jillian Wallshield - Carrithers Middle School
Impact of Social Media on an Election

2nd Place

William Martin - Saint Francis of Assisi, Louisville
Our Solar System and Its Connection to the Fibonacci Sequence

1st Place

Maia Kuehne-Seeber - Saint Francis of Assisi, Louisville
Fractal Faults And Seismic Loading

Microbiology

3rd Place

Sarah Kwasny - Saint Francis of Assisi, Louisville
The Effects of PET Plastics on the Gut Microbiome

2nd Place

Charlotte Doninger - Saint Francis of Assisi, Louisville
Could Plastics be Waterway Reservoirs for Human Pathogens

1st Place

Mary Ballantine - Saint Francis of Assisi, Louisville
Automotive Exhaust: A Selective Environment for Bacteria

Physics and Astronomy

3rd Place

Frank Leezer - Saint Francis of Assisi, Louisville
Rocket Nose Cone Engineering

2nd Place

cooper osborne - Saint Francis of Assisi, Louisville
Electromagnetic Fields: A shield against cosmic radiation?

1st Place

Teklu Hemme - Saint Francis of Assisi, Louisville
Acoustic Levitation

Plant Sciences**3rd Place**

Shelby Geraghty - Brown School Science Fair
Water works

2nd Place

Jadyn Balsamo - Saint Francis of Assisi, Louisville
Exploring the Cognitive Capabilities of Plants

1st Place

Mattie Diehl - Saint Francis of Assisi, Louisville
Preventing Honeysuckle Invasion Using Kentucky Native Allelopathic Plants

Robotics and Intelligent Machines**3rd Place**

Makhtar Ndiaye - Newburg Middle School
Drawbot: The Art of a Perfect Circle.

2nd Place

Mahasen Alsaadi - Nur Islamic School of Louisville
Using Muscles to Allow Robots to Detect Objects at a Distance

1st Place

Micah Steineker, Peter Kurto - North Oldham Middle School
Military Workload Robot

Systems Software**3rd Place**

Jason Millard - Saint Francis of Assisi, Louisville
Helping Hand: An App Connecting Households to the Homeless

2nd Place

Kevin Brothers - Saint Francis of Assisi, Louisville
Programming Autonomous Vehicles to Make Ethical Decisions

1st Place

Brent Merrigan - Saint Francis of Assisi, Louisville
MedNotify

Translational Medical Science**3rd Place**

Emerson Wyatt - Saint Francis of Assisi, Louisville
Sanguinaria Canadensis: a Novel Cancer Treatment?

2nd Place

Nico Sanchez - Saint Francis of Assisi, Louisville
Exploring Effects of HDPE Leachate on Health

1st Place

Savannah Townsley - Carrithers Middle School
What a Pain!