

# **LRSEF- General Award Script - Middle school**

## **Animal Sciences**

### **3rd Place**

Molly Faley - ST. FRANCIS OF ASSISI SCHOOL  
Apple Snails; Stress, Learning and Memory

### **2nd Place**

Josh Adams - ST. FRANCIS OF ASSISI SCHOOL  
Exploring Hand-Dominance in Gorillas

### **1st Place**

Alice Beatty - ST. FRANCIS OF ASSISI SCHOOL  
Conditioning & Memory in Hermit Crabs

## **Behavioral and Social Sciences**

### **3rd Place**

laiken kirby - ST. FRANCIS OF ASSISI SCHOOL  
the effect of parent involvement on sport burn out

### **2nd Place**

Emmett King - ST. FRANCIS OF ASSISI SCHOOL  
Charitable Donation Decisions: Parent vs. Child

### **1st Place**

Seth Spriggs-Dial - ST. FRANCIS OF ASSISI SCHOOL  
Exploring the Relationship between Self-Efficacy and Anxiety in Children

## **Biochemistry**

### **3rd Place**

Sahil Krishnani - ANCHORAGE PUBLIC  
Photosynthesis- A Renewable Energy Source

### **2nd Place**

Nicholas Lynn - ST. FRANCIS OF ASSISI SCHOOL  
Exploring Cigarette Smoke on Enzyme

### **1st Place**

Ruthie Belza - ST. FRANCIS OF ASSISI SCHOOL  
Ascorbic Acid Impacts Protein Glycation

## **Biomedical and Health Sciences**

### **3rd Place**

Brayden Dean - ST. FRANCIS OF ASSISI SCHOOL  
The Health Risks of Pesticides Organic vs Non Organic

### **2nd Place**

Aliana Conway - ST. FRANCIS OF ASSISI SCHOOL  
Exploring TCEP's Potential Role in Learning and Memory Issues

**1st Place**

tess schrenger - ST. FRANCIS OF ASSISI SCHOOL  
Investigating the Toxicity of Playground Rubber Mulch

**Cellular and Molecular Biology****3rd Place**

Grace Hovekamp - ST. FRANCIS OF ASSISI SCHOOL  
Exploring the Anti-Cancer Properties of Moringa Oleifera

**2nd Place**

Scott Dues - ST. FRANCIS OF ASSISI SCHOOL  
Exploring the Effect of Tylenol on Memory

**1st Place**

Ellie Hummel - ST. FRANCIS OF ASSISI SCHOOL  
Exploring Electric Fields in Regeneration

**Chemistry****3rd Place**

Gracelynn Fuhrman - HEBRON MIDDLE SCHOOL  
Formulating Formula

**2nd Place**

Kaitlin Calvery - ST. FRANCIS OF ASSISI SCHOOL  
Photovoltaic Cells; Rose Petal vs. Rose Stem Pigments

**1st Place**

Eliza Gallagher - ST. FRANCIS OF ASSISI SCHOOL  
Identifying and Exploring Methods of Extracting Oxygen from Lunar Regolith

**Computational Biology and Bioinformatics****1st Place**

Jack Calvery - ST. FRANCIS OF ASSISI SCHOOL  
Exploring Gene Annotation

**Earth and Environmental Science****3rd Place**

Woody Schoenbachler - ST. FRANCIS OF ASSISI SCHOOL  
The Effect of Thermoplastic Leachates on Environment Health

**2nd Place**

Lilly Doninger - ST. FRANCIS OF ASSISI SCHOOL  
Environmental Conditions Impact CSO Bacteria Duration

**1st Place**

Henry Doyle - ST. FRANCIS OF ASSISI SCHOOL  
Exploring the Effects of Antibiotics on Algae

## **Embedded Systems**

### **3rd Place**

Ethan Jacob - ST. FRANCIS OF ASSISI SCHOOL  
Increasing The Safety Of Walkers Via Arduino Ultrasonic Sensors

### **2nd Place**

William Ballantine - ST. FRANCIS OF ASSISI SCHOOL  
Safe Cane: Rapid Detection of Slipping Hazards for the Blind

### **1st Place**

Charlie Murr - ST. FRANCIS OF ASSISI SCHOOL  
Using Microcontrollers to Reduce Waste

## **Energy: Chemical**

### **3rd Place**

Ben Keeney - ST. FRANCIS OF ASSISI SCHOOL  
Microbial Fuel Cells and Variables that Affect Voltage

### **2nd Place**

Maya Guinn - South Oldham Middle School  
Saltwater Turbine

### **1st Place**

Virginia Sheldon - ST. FRANCIS OF ASSISI SCHOOL  
Producing alterternative fuels from whiskey waste

## **Energy: Physical**

### **2nd Place**

Raymond Suo - Kentucky Country Day School  
Bio-Fuel from Green and Brown Materials

### **1st Place**

Hannah Martin - Carrithers Middle School  
The Power of Wind

## **Engineering Mechanics**

### **3rd Place**

Julia Renz - ST. FRANCIS OF ASSISI SCHOOL  
Suspension Bridge Cable Shape Affects Vortex Shedding

### **2nd Place**

Katie Mushkin - South Oldham Middle School  
A BeauTEAful Machine

### **1st Place**

Mason Holden - ST. FRANCIS OF ASSISI SCHOOL  
Exploring Highway Sound Barrier Design

## **Environmental Engineering**

**3rd Place**

Savannah Childress - HEBRON MIDDLE SCHOOL  
"It's a Breeze"

**2nd Place**

Julia Elder - ST. FRANCIS OF ASSISI SCHOOL  
Thermochromic Paints: Mitigation Technique to Counterbalance Urban Heat Island Effect

**1st Place**

Peter Schoenbachler - ST. FRANCIS OF ASSISI SCHOOL  
Exploring Atrazine Mobility

**Materials Science****3rd Place**

Chris Willis - ST. FRANCIS OF ASSISI SCHOOL  
Exploring the Effects of Radiation Exposure on Plastics

**2nd Place**

Tarik Hemrekovic - Newburg Middle School  
Investigating Resistance With Pencils

**1st Place**

Jacob Stroud - ST. FRANCIS OF ASSISI SCHOOL  
Creating Effective Bioplastics

**Mathematics****3rd Place**

Celeste Ortega - ST. FRANCIS OF ASSISI SCHOOL  
Fibonacci and The Planets

**2nd Place**

Clare Deschler - ST. FRANCIS OF ASSISI SCHOOL  
Detecting Fractals in Sunspots

**1st Place**

Katherine Martin - ST. FRANCIS OF ASSISI SCHOOL  
Fractal Patterns in Lightning

**Microbiology****3rd Place**

Katherine Dues - ST. FRANCIS OF ASSISI SCHOOL  
Inter-Kingdom Signaling: Are Bacteria Affected By Cortisol?

**2nd Place**

Lilly Bauer - ST. FRANCIS OF ASSISI SCHOOL  
Exploring the Antimicrobial Properties of Sage

**1st Place**

Elaina Render - ST. FRANCIS OF ASSISI SCHOOL  
Exploring Antibiotic Resistance in Probiotics

## **Physics and Astronomy**

### **3rd Place**

Ruthie McBride - ST. FRANCIS OF ASSISI SCHOOL  
Exploring Hydrogels and Water with Salt

### **2nd Place**

Kyle Sanderfer - ST. FRANCIS OF ASSISI SCHOOL  
Secure Comet Attachments

### **1st Place**

Harper Hall - ST. FRANCIS OF ASSISI SCHOOL  
Using Sound to Improve Corn's Flow Rate

## **Plant Sciences**

### **3rd Place**

Brooke Dardano - South Oldham Middle School  
Going Bananas

### **2nd Place**

Rob Player - ST. FRANCIS OF ASSISI SCHOOL  
Effects of Tropisms on a Plant's Growth

### **1st Place**

Corey McGarvey - ST. FRANCIS OF ASSISI SCHOOL  
Salt Stressed Plants: Universal Language of PLants

## **Robotics and Intelligent Machines**

### **3rd Place**

Haniyah Hakim - Islamic School of Louisville Middle School  
The Long and Short of It: Can Height Be the Answer to Your Best Long Jump

### **2nd Place**

Mansur Estes - NUR ISLAMIC SCHOOL  
Line Following BlueBot

### **1st Place**

Trisha Sexton - ST. FRANCIS OF ASSISI SCHOOL  
Fire Protection Robot

## **Systems Software**

### **2nd Place**

Vishnupriya Ramasamy - HIGHLAND MIDDLE SCHOOL  
Smart School Bus - No More "Wrong Bus"

### **1st Place**

Ritesh Dhakal - ST. FRANCIS OF ASSISI SCHOOL  
Guardian Angels; an app to help the homeless

## **Translational Medical Science**

### **3rd Place**

Sophia Bryant - ST. FRANCIS OF ASSISI SCHOOL

Exploring the Potential Anti-cancer Activity of Portulaca Oleracea

### **2nd Place**

Molly Anne McGuire - ST. FRANCIS OF ASSISI SCHOOL

Electric Cigarettes Impact Cellular Function

### **1st Place**

Mark Schrenger - ST. FRANCIS OF ASSISI SCHOOL

Triphenyl Phosphate: A New Health Concern