

LRSEF- General Award Script - High School

Animal Sciences

3rd Place

Caden Taggart - Ballard High School Science & Engineering Fair
Do colored lights have an effect on a chameleons mood and behavior?

2nd Place

Matthew Knerr - Gatton Academy of Science & Mathematics
Artificial Light at Night on Biomarkers in Zebra Finches

1st Place

Anna Turlington - Central Hardin High School
The Effects of E-Liquid on the Regeneration of Planarians

Behavioral and Social Sciences

3rd Place

Faith Grumley - Ballard High School Science & Engineering Fair
Read it or See it: All About Anaphylaxis

2nd Place

Soleila Elliott Gonzalez - Ballard High School Science & Engineering Fair
The Effect of Lying Behavior on Non-Verbal Communication

1st Place

Delaney Ballard - Ballard High School Science & Engineering Fair
The Impact of Alzheimer's simulation on a T teenager's knowledge and comfort towards individuals living with Alzheimer's

Biochemistry

3rd Place

Zane Heil - Central High School
How does food dye affect behavior?

2nd Place

Anna Craven - Valley High School
Effects of Chemicals on Human Body

1st Place

Sasha Sairajeev - Gatton Academy of Science & Mathematics
Synthesis of platinum anticancer compound oxalato(1,4-dimethylpiperzine)platinum(II)

Biomedical and Health Sciences

3rd Place

Riley Milby - Green County High School
Battle of the Carbohydrates

2nd Place

Madelyn Steineker - North Oldham High School
Fluoride Absorption in the Body

1st Place

Aiden Jones - Ballard High School Science & Engineering Fair
The Effect of Various Beverages on Teeth

Biomedical Engineering

3rd Place

Aiden Jackson, Travon Moore - Eastern HS
Lasting Longer

2nd Place

Hannah Martin - Ballard High School Science & Engineering Fair
Knee Replacements in Younger Generations

1st Place

Elizabeth Ratliff - Ballard High School Science & Engineering Fair
The Effect of Music Tempo on the Human Heart Rate

Cellular and Molecular Biology

3rd Place

Megan Broecker - Ballard High School Science & Engineering Fair
Sun protection against meat cells

2nd Place

Aditi Kona - North Oldham High School
Human Genome Editing

1st Place

Edward Zhong - KY Country Day School
Yeast Boosts the Immune Response to Cancer

Chemistry

3rd Place

Katy Floyd - Ballard High School Science & Engineering Fair
Can hand warmers get hot enough to burn human skin?

2nd Place

briaunna anglin, taylor keen - Valley High School
which pain reliever dissolves the fastest in the stomach

1st Place

Nick Taylor - Saint Xavier High School, Louisville
Lethal Carbon Monoxide Levels

Computational Biology and Bioinformatics

2nd Place

Grayson Schleuning, Isabella Kerpestein, Madison Kirby - Eastern HS
Does Road Salt Influence Climate Change?

1st Place

Rithik Reddy, Abdullah Ateyeh - Gatton Academy of Science & Mathematics
Finding the Most Influential Factors Which Control the Healing of Chronic Wounds

Earth and Environmental Science

3rd Place

saeedatu shamsudeen - Central High School
Benefit of CO2 absorption by Mossballs on Mollusks.

2nd Place

Camryn Gunter - Ballard High School Science & Engineering Fair
The Effect of Increased Sodium Chloride Levels on Algae Growth

1st Place

Lea Mitchell - Gatton Academy of Science & Mathematics

Longitudinal Study of Water Quality in Jennings Creek, Bowling Green, Kentucky: Urbanization Impacts on Karst Groundwater

Embedded Systems**1st Place**

Mason Steineker - North Oldham High School

Analyzing Hazardous Air Conditions Through an Embedded System

Energy: Chemical**1st Place**

Maggie Sikes, Mattie Heppner - Eastern HS

Do Plastics Interfear With BioMud?

Energy: Physical**3rd Place**

Ellen Hixenbaugh - Ballard High School Science & Engineering Fair

Hydroelectric Generators

2nd Place

Gabriella Drake - Ballard High School Science & Engineering Fair

Force and Velocity - a change in the winds

1st Place

Adam Abayev - Ballard High School Science & Engineering Fair

Charge Funneling

Engineering Mechanics**3rd Place**

john milby - Green County High School

Reverse Engineering of a Manual Transmission

2nd Place

Anne Pollio - Ballard High School Science & Engineering Fair

Artificial Sunflower

1st Place

Rachel Spaulding - Eastern HS

Solar Updraft Tower-Wind Turbine Hybrid: Maximizing Power Output through Vortex Shedding , Water Droplet Atomization and Arduino Servo Control Feedback Loop

Environmental Engineering**3rd Place**

Owen Phillips - Ballard High School Science & Engineering Fair

Will Adding Materials Affect the Strength of Concrete?

2nd Place

Katie Bollinger - Ballard High School Science & Engineering Fair

How Quickly do Personal Care Wipes Break Down Over Time?

1st Place

Zachary Schneider - Saint Xavier High School, Louisville

Pressure Assisted Cryogenic Carbon Dioxide Extraction

Materials Science

3rd Place

Yafet Zewdie - Eastern HS

Can copper prevent mold growth when added to paint?

2nd Place

Patrick Dumire - Valley High School

Dragon Shield Vs. Ultra Pro Eclipse

1st Place

Isabel Gladys - Ballard High School Science & Engineering Fair

Thermos Evaluation

Mathematics

3rd Place

Joyce Chen - Ballard High School Science & Engineering Fair

The Relationship Between Car Accidents and Car Color, Car Make, Gender of Driver, and the State the Accident Occurred In

2nd Place

Jedidiah Tillmam - Eastern HS

Mathematical Aspects of Chess

1st Place

Trinity Morgan - Valley High School

Fibonacci sequence in life

Microbiology

3rd Place

Alexa Smothers - Central High School

Effect of Cinnamaldehyde on *Streptococcus gordonii*

2nd Place

Lauren Cail - Ballard High School Science & Engineering Fair

Musical Pathogens

1st Place

Elisha VanZant, Miriam Richardson - Gatton Academy of Science & Mathematics

The Isolation, Characterization, and Comparison of Novel Microbacteriophages PilotOrr and Triard

Physics and Astronomy

3rd Place

Kamren Clark - Ballard High School Science & Engineering Fair

Can The Qube Affect Shooting Percentage?

2nd Place

William Cecil - Ballard High School Science & Engineering Fair

Which Shoe Insole Will Best Protect the Foot?

1st Place

Amina Ahmed - Eastern HS

Climate Change

Plant Sciences

3rd Place

Lydia Lian - Central High School

Future Farmland

2nd Place

Kaci McCarthy - Ballard High School Science & Engineering Fair
Effect of Hydrogel on Radish Plant Growth

1st Place

Kjersten Nelson - Ballard High School Science & Engineering Fair
The Effects of Sound Pollution on Plant Growth

Robotics and Intelligent Machines**1st Place**

Brad Richeson, Rick Biswas - Eastern HS
Robotics and Intelligent Machines

Systems Software**2nd Place**

Ben DeLozier - Ballard High School Science & Engineering Fair
How do Physics Apply to the Game Design of Fighting Games

1st Place

Aidan Villegas - Eastern HS
Using Scratch to Master Logic and Probability

Translational Medical Science**3rd Place**

Marley Wiljanen, William Wiley - Valley High School
Shower Temperature on the Cardiovascular System

2nd Place

aaliyah fentress - Valley High School
right/left brain use

1st Place

Vaitheesh Jaganathan - Ballard High School Science & Engineering Fair
Tender Coconut Water Inhibits the Growth of HepG2 Cancer Cell by Reversing 'Epithelial to Mesenchymal Transition' Process