2017 Wyoming State Science Fair Awards
Animal & Plant Sciences
Animal & Plant Sciences - Junior Division

3rd Place

Keeping the Sage in Sage Grouse

Theresa Bautz

Lander Middle School

Lander, WY
Animal & Plant Sciences - Junior Division

2nd Place

The Dirt On Mulch

Tanner Roberts

Pinedale Middle School

Pinedale, WY
1st Place

Artificial Insemination Fresh vs. Frozen Semen

Bree Coxbill

Southeast Jr/Sr High

Torrington, WY
Animal & Plant Sciences - Senior Division

3rd Place
Hyroponics
Kellar Bock
Newcastle High School
Newcastle, WY
The Effect of Wood Chips on Ammonium Levels

Courtney Rainbolt

Newcastle High School

Newcastle, WY
Animal & Plant Sciences -Senior Division

1st Place

The embryonic development of Oncorhynchus Mykiss When Exposed to Heavy Metal Solutions

Colton Curtis

Meeteetse High School

Meeteetse, WY
Behavioral & Social Sciences - Junior Division

3rd Place

When Words Fail Music Speaks
Aiden Chandler and Samuel Belmont
Powell Middle School
Powell, WY
Behavioral & Social Sciences - Junior Division

2nd Place
Tall Tales
Gage Gose
Lander Middle School
Lander, WY
Behavioral & Social Sciences - Junior Division

1st Place

But I Thought He Was On My Team!
The Effect of Jersey Color on Quarterback Performance

Colmcille Rottinghaus

Lander Catholic Home School

Lander, WY
Behavioral & Social Sciences -Senior Division

3rd Place
Liar, Liar
Heather Michaelis and Megan Kenney
Newcastle High School
Newcastle, WY
Behavioral & Social Sciences -Senior Division

2nd Place
I Just Can’t Stand It
Samuel Palmer
Casper Homeschool
Casper, WY
1st Place

The Effect of Digital Media Use On Prospective Memory

Fiachra Rottinghaus

Lander Catholic Homeschool

Lander, WY
Biochemistry & Biological Sciences
3rd Place

Polystyrene Compost By Mealworms

Weston Haley

Greybull Middle School

Greybull, WY
Biochemistry & Biological Sciences - Junior Division

2nd Place
Cracking the Case
Bailey Benson
Wheatland Middle School
Wheatland, WY
Biochemistry & Biological Sciences - Junior Division

1st Place

The 81mg Flip

Riley Shaw

Lusk Middle School

Lusk, WY
Investigating possible Reduction of Beta-Amyloid Plaques Through the Synergistic Action of Cinnamon and Curcumin

Julianne Carlson
Greybull High School
Greybull, WY
Biochemistry & Biological Sciences - Senior Division

1st Place

Modeling the Effects of Neurotransmitters in the Cardiac Muscle of Mecenari With Rhodiolarosea

Devon Curtis

Meeteetse High School

Meeteetse, WY
Chemistry/Energy: Chemical
Got Glow?
Jaycee Myrtle and Sheela Flury
Southeast School
Torrington, WY
Chemistry/ Energy: Chemical - Junior Division

2nd Place

Once Upon Again: Rechargeable Tin Batteries

Abby Copeland

Lander Middle School

Lander, WY
Chemistry/ Energy: Chemical -Junior Division

1st Place
Developing Microbial Fuel Cell
Carlos Munoz and Nathan Maxfield
Big Piney Middle School
Marbleton & Big Piney, WY
Chemistry/ Energy: Chemical -Senior Division

3rd Place
The Effect of Temperature on Alminol
Alicia Brock
Meeteetse High School
Meeteetse, WY
Chemistry/ Energy: Chemical -Senior Division

2nd Place

Promoting Renewable Energy Via Organic Solar Cells

Caitlin Huang

Laramie High School

Laramie, WY
Chemistry/ Energy: Chemical -Senior Division

1st Place

Application of Plant Hormones to Microalgae Cultures to Increase the Availability of Lipids for Biofuel Production

Makyela Sorensen

Greybull High School

Greybull, WY
Engineering Sciences & Energy: Physical
Engineering Sciences & Energy: Physical -Junior Division

3rd Place
One Rudder Wonder
Charles Koval
Sheridan Junior High
Sheridan, WY
Engineering Sciences & Energy: Physical - Junior Division

2nd Place

DIY Vs Super Glue

Nathan Ulery

Holy Name Catholic School

Sheridan, WY
Engineering Sciences & Energy: Physical - Junior Division

1st Place

Delta Power

Ethan Adkins

Pinedale Middle School

Pinedale, WY
Engineering Sciences & Energy: Physical - Senior Division

3rd Place
Bend It To The Limit
Bradyn Frye
Newcastle High School
Newcastle, WY
Engineering Sciences & Energy: Physical -Senior Division

2nd Place

Solar Storm’s Effect on GPS Activity in Drone Performance

Alyssa Umphlett

Newcastle High School

Newcastle, WY
Engineering Sciences & Energy: Physical - Senior Division

1st Place

How Much Can it Soak?

Jacob Rhoades

Newcastle High School

Newcastle, WY
Environmental Sciences & Engineering
Environmental Sciences & Engineering - Junior Division

3rd Place
Moovin’ For Biodiversity
Sierra Lloyd
Lander Middle School
Lander, WY
Environmental Sciences & Engineering - Junior Division

2nd Place
Hot Gas
Evan Anderson
Davis Elementary
Cheyenne, WY
Environmental Sciences & Engineering - Junior Division

1st Place

Harming Our Future One Weed At A Time

Mia Copeland

Lander Middle School

Lander, WY
3rd Place

Evaluating The Effectiveness Of A Hydrogel-Fertilizer Matrix To Improve Seed Germination

Dante Sylvester

Greybull High School

Greybull, WY
Environmental Sciences & Engineering -Senior Division

2nd Place

Evaluating The Effectiveness Of Chemical Activation Of Coffee Ground/Zeolite Matrix For The Reduction Of Industrial Carbon Dioxide

Eduardo Burgos

Greybull High School

Emblem, WY
Determination Of Soil VOC Content Due To Coal Dust Deposition Along Major Railroad Transportation Routes

Sierra Spears
Lingle-Fort Laramie High
Lingle, WY
Mathematics
Mathematics - Junior Division

3rd Place
Stepping High
Benjamin Browning
Lander Middle School
Lander, WY
Mathematics - Junior Division

2nd Place
Mapping Math Counts
Preslie Simkins
Pinedale Middle School
Pinedale, WY
Mathematics - Junior Division

1st Place
Smashing With Math
Gabriel Harris
Lander Middle School
Lander, WY
3rd Place

To Mars & Back Again: Designing A Medical 3D Print To Advance Long Term-Human Space Exploration

Jakobi Hibbert

Big Piney Middle School

Big Piney, WY
Medical Sciences - Junior Division

2nd Place

Protecting A Bull Riders Spine

Isabella Lungren

Greybull Middle School

Greybull, WY
Medical Sciences - Junior Division

1st Place

Concussion Effects

Riley Schiller and Jace Bohlman

Powell Middle School

Powell, WY
3rd Place
A Swell In “Solution For Obesity”
Arundathi Nair
Laramie High School
Laramie, WY
Medical Sciences -Senior Division

2nd Place

Cutting Edge Engineering: The Engineering Project Focused On Creating A Scalpel That Will Prevent Artery Nicks In Surgery

Adrianna Ruby and Destiny Reed

Big Piney Middle High School

Big Piney, WY
Medical Sciences - Senior Division

1st Place

Extracts As Potential Unique Antioxidant Therapy: Lowering \( \alpha \)-synuclyn to Improve Parkinson’s Outcomes

Anna Savage

Greybull High School

Greybull, WY
Microbiology
Microbiology - Junior Division

3rd Place
Glo-Away Germs
Sabrina Donaldson
Pinedale Middle School
Pinedale, WY
Microbiology - Junior Division

2nd Place

CO$_2$ Removal with a Photobioreactor

Torrey Sanford

Greybull Middle School

Greybull, WY
Microbiology - Junior Division

1st Place
Can I eat this?
Anna Cecil
Wheatland Middle School
Wheatland, WY
3rd Place

The Analysis of the Effect of pH Balance on the Ability of Escherichia Coli to Perform Genetic Transformations

Merik Votaw

Meeteetse High School

Meeteetse, WY
Microbiology - Senior Division

2nd Place
Defeating Bacteria
Cheyenne Hunter
HEM Jr./Sr. High School
Hanna, WY
Microbiology -Senior Division

1st Place

Shifting Sun v.s. Putrid Pilobolus

Jennel Mead

Cheyenne South High School

Cheyenne, WY
Physics & Astronomy
Physics & Astronomy - Junior Division

3rd Place

Bro, Do You Even Lift?

Tristan Smith

Saratoga Middle School

Saratoga, WY
Physics & Astronomy - Junior Division

2nd Place
Rocket Science
Brodie Turbitt
Davis Elementary
Cheyenne, WY
Physics & Astronomy - Junior Division

1st Place

Hit It With Your Best Shot

Danielle Clapper & Carly Keller

Southeast Schools

Veteran & Torrington, WY
Physics & Astronomy - Senior Division

3rd Place

The Effect of Potassium Nitrate on Rocket Fuel

Hunter Liggett

Newcastle High School

Newcastle, WY
2nd Place

The Average Size of the Space Bubbles in the Equatorial Region of the Milky Way Galaxy

Amanda Cooley

Meeteetse

Meeteetse, WY
Physics & Astronomy - Senior Division

1st Place
Sugar vs. Lasers
Johnna Dawson
Newcastle High School
Newcastle, WY
Robotics & Computer Sciences
Robotics & Computer Sciences - Junior Division

3rd Place
Cymatics
Addison Braten
Powell Middle School
Powell, WY
2nd Place
Increasing WiFi Range and Speeds through Do-It-Yourself Methods
Quinton Lawrence
Wheatland Middle School
Wheatland, WY
Roboticics & Computer Sciences - Junior Division

1st Place

Discovering the Capability of a Homemade Particle Sensor and Exploring the Dangers of Particulate Matter

Kyland Fuller

Lingle-Ft.Laramie Schools

Ft. Laramie, WY
Which Material Will Effect The Bluetooth Range The Most?

Kaden Curren & Talon Logan

Newcastle High School

Newcastle, WY
Robotics & Computer Sciences - Senior Division

2nd Place

Bright and Flashy

Garrett Merchen

Newcastle High School

Newcastle, WY
Robots & Computer Sciences -Senior Division

1st Place
Implementing New Methods of Prosthetic Control
Qingfeng Li
Laramie High School
Laramie, WY