



GREAT FALLS
COLLEGE

MONTANA STATE
UNIVERSITY



Montana Region II Science & Engineering Fair

March 15, 2018

MIDDLE SCHOOL AWARDS

**Sixth Grade
Biological Sciences**

1st Place Team

**Ella Pethel
Danika Lords**

Dirty Truth

Belt Middle School

**Sixth Grade
Biological Sciences**

2nd Place Team

**Emma Guter
Kadence Taylor**

Spectacular Silver

Our Lady of Lourdes

Sixth Grade Biological Sciences

1st Place Individual

Emery Briles

Antibacterial vs. Generic Hand Soaps

Our Lady of Lourdes

Sixth Grade

Biological Sciences

2nd Place Individual

Tristan Hiller

Moldy Locks and the Three Foods

Our Lady of Lourdes

Sixth Grade

Biological Sciences

3rd Place Individual

Isis Haslem

What is the Easiest Shape to Remember?

Our Lady of Lourdes

Sixth Grade Physical Sciences

1st Place Team

**Reese Paulson
Ethan Triplett**

Insulators

Belt Middle School

Sixth Grade Physical Sciences

2nd Place Team

**Clayton Jassen
John Tingey**

Battle of the Batteries

Belt Middle School

Sixth Grade Physical Sciences

3rd Place Team

**Emma Atkinson
Hope Madill**

Here Comes the Sun

Our Lady of Lourdes

Sixth Grade Physical Sciences

1st Place Individual

Carter Fryberger

Pipeline Probe

Sun River Middle School

Sixth Grade Physical Sciences

2nd Place Individual

Lane Waldner

The Moldy Truth

Belt Middle School

Sixth Grade Physical Sciences

3rd Place Individual

Ireland Osentowski

A Way to Help with Heartburn

Our Lady of Lourdes

Seventh Grade

Biological Sciences

1st Place Team

Bridger Vogl
Ryley Mapston

Food from Floors

Belt Middle School

Seventh Grade

Biological Sciences

2nd Place Team

Kellie Jo Poitra
Lacie Malsam

Gel Capsules vs Tablets?

Our Lady of Lourdes

Seventh Grade

Biological Sciences

1st Place Individual

Hannah Davis

Hungry Roses

Holy Spirit Catholic School

Seventh Grade

Biological Sciences

2nd Place Individual

Hannah Bloomgren

Germ Attack

Holy Spirit Catholic School

Seventh Grade

Biological Sciences

3rd Place Individual

Maxwell Leray

The Five Second Rule

Our Lady of Lourdes

Seventh Grade

Physical Sciences

1st Place Team

Carter Casavant
Brodie Ober

The Magnetic Magic of the Living Squid

Cascade Middle School

Seventh Grade

Physical Sciences

2nd Place Team

Trayden Tait
Carter Otheim

Insulation Exploration

Cascade Middle School

Seventh Grade Physical Sciences

3rd Place Team

**Isaac Maki
Memphis Black**

Magic Pop Bottles

Belt Middle School

Seventh Grade

Physical Sciences

1st Place Individual

Baylee Herman

Body Builder

Sun River Middle School

Seventh Grade

Physical Sciences

2nd Place Individual

Connor Sullivan

Simple Electric Motor

Sunburst Middle School

Seventh Grade Physical Sciences

3rd Place Individual

Marshall Kunkel

Armed with a Block

Sun River Middle School

Eighth Grade Biological Sciences

1st Place Team

**Cassidy Sewak
Rikki Nefzger**

Chemically Compromised h2o

Cascade Middle School

Eighth Grade Biological Sciences

2nd Place Team

**Audrey Taylor
Payton Vermulm**

Hot Heads!

Utterback School

Eighth Grade Biological Sciences

3rd Place Team

**Sami DeBolt
Tori Jones**

What About the Plants?

Fairfield Middle School

Eighth Grade Biological Sciences

1st Place Individual

Georgia Balius

Growing Microgreens

Foothills Community Christian School

Eighth Grade Biological Sciences

2nd Place Individual

Justin Aderhold

The Affect of Music on Bacteria

Our Lady of Lourdes

Eighth Grade Biological Sciences

3rd Place Individual

Emily Crago

Survival of the Fittest

Ulm Middle School

Eighth Grade Physical Sciences

1st Place Team

**Cole Hepfner
Gabriel Triplett**

Brace Yourself

Belt Middle School

Eighth Grade Physical Sciences

2nd Place Team

**Michael Leach
Dayne Sullivan**

Green Machine

Sun River Middle School

Eighth Grade Physical Sciences

3rd Place Team

**Tucker Atkinson
Isaac Madill**

The Power of H₂O

Our Lady of Lourdes

Eighth Grade

Physical Sciences

1st Place Individual

Josh Kearns

Investigation: Dead Cow Coulee

Sunburst Middle School

Eighth Grade Physical Sciences

2nd Place Individual

Sterling Chargois

Chemicals with Electrolysis: What works best?

Our Lady of Lourdes

Eighth Grade

Physical Sciences

3rd Place Individual

Wyatt Manthey

The Effects of Plant Orientation on Erosion

Sunburst Middle School

Animal Science Merit

6 th Grade	Keely Dirkson	Belt Middle School	Giddy Up
7 th Grade	Nina Okes	Sun River Middle School	Contaminated Critters
8 th Grade	Emilie Crago	Ulm Middle School	Survival of the Fittest

Behavioral Science Merit

6 th Grade	Isis Haslem	Our Lady of Lourdes	What is the Easiest Shape to Remember?
7 th Grade	Adrienne Purpura	Our Lady of Lourdes	What Is Social Media's Effect on Anxiety?
8 th Grade	Kurryn Schullerman	Stanford Middle School	Talking Speed

Biochemistry Merit

6th Grade Amelea McKamey Ulm Middle School Odor Eater

Biomedical & Health Science Merit

6 th Grade	Emma Guter Kadence Taylor	Our Lady of Lourdes	Spectacular Silver
7 th Grade	Madison Davis	Our Lady of Lourdes	Which Area is Most Missed Brushing Teeth?
8 th Grade	Allie Skelton	Geyser Middle School	Kitchen Sponges: Doomed to Grow Bacteria?

Chemistry Merit

6 th Grade	Ireland Osentowski	Our Lady of Lourdes	A Way to Help With Heartburn
7 th Grade	Cadence Schnider	Holy Spirit Catholic School	Solid Sodium Solution
8 th Grade	Annie Cook	Centerville Middle School	Everyday I'm Guzzlin'

Earth & Environmental Merit

6 th Grade	Kylee Permann	Belt Middle School	Weather Tester
7 th Grade	K-leigh Skeels	Sunburst Middle School	Red Worm Diets
8 th Grade	Preston Hastings	Cascade Middle School	Nematode population

Embedded Systems Merit

6th Grade Jackson Schubarth
William Mishler Sun River Middle School Panda Power

Energy: Chemical Merit

7th Grade Trevor Paliga Simms Junior High Acid Corrosion

Energy: Physical Merit

6 th Grade	Emma Atkinson Hope Madill	Our Lady of Lourdes	Here Comes the Sun
7 th Grade	Robert Johnson	Holy Spirit Catholic School	Charge It Up
8 th Grade	Gus Turner	Sunburst Middle School	How to Make Wind Work for You

Engineering Mechanics Merit

6 th Grade	Hudson Rohrer	Sun River Middle School	Do Sensors Make Cents?
7 th Grade	Baylee Herman	Sun River Middle School	Body Builder
8 th Grade	James Eli	Centerville Middle School	Rockets

Environmental Engineering Merit

6 th Grade	Thomas Vitale Alex Hunsacker	Belt Middle School	Crisp, Clear Water
7 th Grade	Jackson Tarum	Our Lady of Lourdes	A Bottle You Can Eat

Material Science Merit

6 th Grade	Clayton Jassen John Tingey	Belt Middle School	Battle of the Batteries
7 th Grade	Thomas Wahl	Holy Spirit Catholic School	Clean Up Time
8 th Grade	Lakaylee Ochs	Holy Spirit Catholic School	From Fields to Lips

Mathematics Merit

7 th Grade	Laura Zietzke	Simms Junior High	Concussion Discussion
8 th Grade	Jenna Donnelly	Holy Spirit Catholic School	Are Ur Windows Insulated?

Microbiology Merit

6 th Grade	Ella Pethel Danika Lords	Belt Middle School	Dirty Truth
7 th Grade	Hannah Bloomgren	Holy Spirit Catholic School	Germ Attack
8 th Grade	Justin Aderhold	Our Lady of Lourdes School	The Affect of Music on Bacteria

Physics & Astronomy Merit

8th Grade Quinn Laurent Our Lady of Lourdes School Magnetic Shielding

Plant Science Merit

6 th Grade	Quinci Neuman	Holy Spirit Catholic School	What's the Deal with Fertilizer
7 th Grade	Hannah Davis	Holy Spirit Catholic School	Hungry Roses
8 th Grade	Georgia Balius	Foothills Community Christian School	Growing Microgreens

Broadcom MASTERS Nominees

The top 10% of projects from the Montana Region II Science and Engineering Fair are nominated to enter the Broadcom MASTERS national competition.

Reese Ethan	Paulson Triplett	Belt Middle School	Insulators
Clayton John	Jassen Tingey	Belt Middle School	Battle of the Batteries
Emery	Briles	Our Lady of Lourdes School	Antibacterial vs. Generic Hand Soaps
Ella Danika	Pethel Lords	Belt Middle School	Dirty Truth
Emma Kadence	Guter Taylor	Our Lady of Lourdes School	Spectacular Silver
Carter	Fryberger	Sun River Middle School	Pipeline Probe
Lane	Waldner	Belt Middle School	The Moldy Truth
Addison	Urick	Belt Middle School	Will It Grow?
Ireland	Osentowski	Our Lady of Lourdes School	A Way to Help With Heartburn
Emma Hope	Atkinson Madill	Our Lady of Lourdes School	Here Comes the Sun
Tristan	Hiller	Our Lady of Lourdes School	Moldy Locks and the Three Foods
Baylee	Herman	Sun River Middle School	Body Builder
Connor	Sullivan	Sunburst Middle School	Simple Electric Motor
Josh	Kearns	Sunburst Middle School	Investigation: Dead Cow Coulee
Sterling	Chargois	Our Lady of Lourdes School	Chemicals with Electrolysis: What Works Best?
Georgia	Balius	Foothills Community Christian School	Growing Microgreens
Valon	Haslem	Our Lady of Lourdes School	How Heat Affects the Viscosity of Liquids
Wyatt	Manthey	Sunburst Middle School	The Effects of Plant Orientation on Erosion
Justin	Aderhold	Our Lady of Lourdes School	The Affect of Music on Bacteria
Quinn	Laurent	Our Lady of Lourdes School	Magnetic Shielding
Jackson	Tarum	Our Lady of Lourdes School	A Bottle You Can Eat
Emilie	Crago	Ulm Middle School	Survival of the Fittest
Anna	Wedel	Sunburst Middle School	Water Enhancers

Citizens for Clean Energy

Projects addressing renewable energy, resource conservation and environmental protection or remediation

1st Place
\$80

Sami DeBolt
Tori Jones

What About the Plants?

Fairfield Middle School

2nd Place
\$60

Hudson Rohner

Do Sensors Make Sense?

Sun River Middle School

3rd Place
\$40

Emma Atkinson
Hope Madill

Here Comes the Sun

Our Lady of Lourdes

4th Place
\$20

Tucker Atkinson
Isaac Madill

The Power of H2O

Our Lady of Lourdes

National Oceanic and Atmospheric Administration (NOAA)

The project selected from among all the general award categories whose research emphasizes NOAA's mission of Science, Service, and Stewardship: "To understand and predict changes in climate, weather, oceans, and coasts, To share that knowledge and information with others, and To conserve and manage coastal and marine ecosystems and resources."

Emma Atkinson

Hope Madill

Here Comes the Sun

Our Lady of Lourdes

Office of Naval Research

The Naval Middle School Science Awards Program (NSAP) is a U.S. Navy and Marine Corps program that encourages our nation's students to develop and retain an interest in science and engineering.

Madison Hermiller

The Permeability of Different Soil Types

Our Lady of Lourdes

Allie Skelton

*Kitchen Sponges: Doomed to
Grow Bacteria?*

Geyser Middle School

Josh Kearns

Investigation: Dead Cow Coulee

Sunburst Middle School

Madeline Hane

Inspector Gadget

Sun River Middle School

Society of American Military Engineers

The mission of the SAME STEM Committee is to build a world class STEM program to produce our nation's future engineers and leaders.

Marshall Kunkel

Armed with a Block

Sun River Middle School

U.S. Air Force

The most outstanding 11th grade project exhibiting in the areas of Computer Science, Engineering, Physics, or Chemistry.

Blaine Thielman

Y'all Need an Embrace?

Sun River Middle School

Macy Herman

Hit Me with Your Best Shot

Sun River Middle School

James Eli

Rockets

Centerville Middle School

**Michael Leach
Dayne Sullivan**

Green Machine

Sun River Middle School

U.S. Forest Service

Environmental/Conservation Project Excellence – Snowshoe Hike

Sami Tori	DeBolt Jones	Fairfield Middle School	What About the Plants?
Justin	Smith	Cascade Middle School	Potato Water Filter
Katie	Skasick	Cascade Middle School	E-waste Disposal
Cassidy Rikki	Sewak Nefzger	Cascade Middle School	chemically compromised h2o
Adair	Arnold	Cascade Middle School	Noise Pollution: Rural vs Urban
Karsen	Dane	Our Lady of Lourdes School	Organic or Chemical Fertilizer?
Madison	Hermiller	Our Lady of Lourdes School	The Permeability of Different Soil Types
Jackson	Tarum	Our Lady of Lourdes School	A Bottle You Can Eat
Garett	Metrione	Belt Middle School	Greenhouse Effect
Mason	Davis	Our Lady of Lourdes School	Which Wood Rots the Most?
Thomas	Wahl	Holy Spirit Catholic School	Clean Up Time
Wyeth	Hayes	Holy Spirit Catholic School	Effects of Water Toxicity
Kaiden	Horner	Holy Spirit Catholic School	Savage Seeds
Taylor	Schilling	Sunburst Middle School	Plants vs Acid Rain
Josh	Kearns	Sunburst Middle School	Investigation: Dead Cow Coulee
Wyatt	Manthey	Sunburst Middle School	The Effects of Plant Orientation on Erosion