

Billings Clinic Research Center Science Expo

Results of Competition

Top Ten Per Grade

Date: 27-Mar-2010

Grade <u>1</u>	Name	School	Project Name
	Fionn Camp	Fred W. Graff School, Laurel	Boys vs. Girls
	Ella Mercer	Arrowhead Elementary	Squishy Scopes
	Elizabeth Kay	McKinley School	Sugar Sunlight Candy
	Sarah Meron	Canyon Creek School	Bossy Cabbage
	Christian Fink	Van Maren Home School	Are You Colorblind?
	Ian Forsyth	Arrowhead Elementary	Oh Man Moldy!
	Macie Flamm	Hardin Primary School	Measuring Tree Growth
	Clare Pankratz	Pankratz Home School	Colorful Magic
	Sean Meron	Canyon Creek School	Ice Melt & Metals
	Rollie Davis-Lowery	Roundup Central School	Stars and the Moon
Grade <u>2</u>			
	Karter Michels	Shepherd Elementary School	No Confusion About Diffusion
	Anney Sokoloski	Meadowlark Elementary School	Let's "C" If There is More or Less
	Jake Gilbertson	Boulder School	Bank or School: Which is Germiest?
	Ava Graham	Mountain View School, Red Lodge	Why the Moon Changes Shape
	Casey Knobloch	St. Labre Catholic School, Ashland	Having Fun with Cream
Grade <u>3</u>			
	Madeleine Fink	Van Maren Home School	Mushroom Polyp Propagation: More or Less Light?
	Killian Yeager	Sandstone School	Rechargeable Batteries
	Alex Wiens	Sandstone School	Effects of Flight
	Lucas Gibb	Arrowhead Elementary	Can You See Me Now?
	Shea Dolan	Arrowhead Elementary	Handwashing
	Sarah Pankratz	Pankratz Home School	Forever Green!
	Levi Youde	Youde Home School	C is the Key
	Sarah Wiseman	Boulder School	Metal, Magnets and What is Between Them
	Cecily Real Bird	Fort Smith School	Heat & Motion

Grade 4

August Schuerr	Winans Elementary, Livingston	Study of Bacteria and Color at LaDuke Hot Springs
Cole Westerlund	Arrowhead Elementary	What is Arrowhead School's Dirtiest Area?
Cameron Paul	Paul Home School	Amazing Bridges
Austin Amestoy	Fred W. Graff School, Laurel	Are You Really Going to Drink Out of That?
Leanna Markovics	Silverbow Montessori School, Butte	Water Volume and Seed Germination
Eliana Wagner	Arrowhead Elementary	How Different Kinds of Light Effect Plant Growth
Sylvia Scianna	Bridger Elementary	Weed Seed Viability at Different Soil Depths
Larissa Saarel	Winans Elementary, Livingston	Chia..the Little Seed that Packs a PUNCH!
Robbie Hurt	Sandstone School	What the Fizz?
Alison Weiss	Arrowhead Elementary	Reduce Re-read Recycle
Tylene Parker	Sandstone School	Capped Plants
Hannah Bick	Arrowhead School	Effectiveness of Hand Lotion

Grade 5

Jacob Pankratz	Pankratz Home School	My Nerves are Frozen
Oscar Kronenberger	Silverbow Montessori School, Butte	Cough It Up
Traven Olson	Kricher School, Miles City	Eat or 2 B Eaten
Maddie Flamm	Hardin Primary School	Pine Beetles & Forest Fires
Kess Nelson	Luther School, Red Lodge	Vegetable Colors
Venton Arce	St. Francis Intermediate	Best Paw Forward
Frances Graham	Mountain View School, Red Lodge	Testing Electromagnets
Alexander Novasio	Sandstone School	Powdered Milk Sunset
Aidan Harrington	St. Francis Intermediate School	Slingshot Science
Alyssa Goffena	Goffena Home School	Left-handedness: Is it Genetic?

Grade 6

Jonah Prill	Arrowhead Elementary	The Impact of Disturbed or Non-vegetated Soil Around Riparian Areas
Austin Marchwinski	Elysian School	Grey Water: Saving the Planet One Drop at a Time
Daniela Nieva	Nieva Home School	Friction Addiction
Devon Watkins	Sidney Middle School	Cricket Crazy
Tel Hermanson	Sidney Middle School	Plants Favorite Drink
Marcus Lovegren	Sidney Middle School	Acne Attack
Katie Upchurch	Upchurch Home School	What's Up, Dog?
Neil Wittorff	Drumstick Academy	Speedy Indeedy
Mya Ator	Frank Battin Middle School, Colstrip	Mrs. Frisby: the Amazing Hoopster
Mattie Steinley	Sidney Middle School	Heat Wave

Grade 7

Austin Howard	Howard Home School	Shadows: Not So Black & White
Jeffrey Kampfe	Luther School, Red Lodge	Imagine That!
Emma Woodring	Woodring Home School	Zit Zappers
Garrett Connor	Absarokee School	Dog Smarts
Elijah Barbour	Absarokee School	Strong as the Average Noodle
Joshua Gallagher & Cody Jacobson	Absarokee School	Regular vs. Goofy and New vs. Old
Rachelle Weyerbacher	Kinsey School	The Felon Fluid
Ty Pfungsten	Absarokee School	What Type of Geodesic Dome Material Holds Weight Best?
Taylor Thiessen	Sidney Middle School	Solar Power
Tyler Stenson	Stenson Home School	The Power of Color

Grade 8

Kelsie Harriman	Sleeping Giant Middle School, Livingston	In the Zone
Levi Lynde	Luther School, Red Lodge	Checking the Air
Connor Beck	Luther School, Red Lodge	Chladni
Nicole Moore	Sidney Middle School	Lather & Rinse or Pump & Run?
Haley Fallang & Grace Kightlinger	Absarokee School	Weight Watchers for Mice
Alaini Lorash & Taylor Flynn	Absarokee School	Trees: Are They Safe?
Colton Stampfel	Absarokee School	Magnetic Power
Charity Ratliff	Hardin Middle School	Dirty Dirt
Tommy Bolkcom	Luther School, Red Lodge	Cellular Buzz
Ariana Gaskin & Tori Hill	Sidney Middle School	What's Warmer When Wet?

Discovery Education 3M Young Scientist Challenge:

The following students from Grades 5 through 8 have been nominated to compete:

Grade 5:

Jacob Pankratz
Oscar Kronenberger
Traven Olson

Grade 6:

Jonah Prill
Austin Marchwinski
Daniela Nieva

Grade 7:
Austin Howard
Jeffrey Kampfe
Emma Woodring

Grade 8:
Kelsie Harriman
Levi Lynde
Connor Beck

Top Ten High School

Adair Borges Gr. 12 Billings Senior High School
The Effects of Nutrient Supplementation on In-situ Bioremediation

John Mueller Gr. 11 Billings Central Catholic High School
Identification of Genes Involved in Resveratrol Action on *Saccharomyces cerevisiae* Cell Division

Ellen Hyams & Jacqueline Stergar-Elliott Gr. 11 Billings Central Catholic High School
Waste Management for Cattle Feedlots - Methods to Deactivate Antibiotics and Reduce Antibiotic-resistant Bacteria in Solid Waste

Kenda Laber, Margaret Wilmoth & Tyler Nelson Gr. 11 Billings Central Catholic High School
The Identification of Methicillin-resistant *Staphylococcus aureus* in Potential Carriers Associated with High-risk Environments.

Justin MacDonald, Paul Gillig & John Werner Gr. 11 Billings Central Catholic High School
Molecular Evolution of Disease Utilizing a Comparative Genomics Analysis

Grant Kelly & Hillary Hunt Gr. 11 Billings Central Catholic High School
Impact of Melatonin in Recovery of *Drosophila melanogaster* Exposed to UV-C Radiation

Sarah Hagan & Taylor Steubs Gr. 11 Billings Central Catholic High School
The Effect of Melatonin on the Survival of UV-irradiated *Saccharomyces cerevisiae*

Chelsey Eubank & Maria Miller Gr. 11 Billings Central Catholic High School
Toxicology of Endocrine Disruptors on Ethnology of Betta Fish

Lane Butler Gr. 10 Carter County High School
The Effects of Temperature & CO₂ on Painted Lady Butterfly (*Vanessa cardui*) Larvae

Lily Westerhoff Gr. 10 Huntley Project High School
Shocking Power

First in Grade 9

Logan Bauman Carter County High School
Tolerance of Vegetatively Propagated Clones of *Kalanchoe daigremontiana* to pH and Salinity Variations

First in Grade 10

Lily Westerhoff Huntley Project High School
Shocking Power

First in Grade 11

John Mueller Billings Central Catholic High School
Identification of Genes Involved in Resveratrol Action on *Saccharomyces cerevisiae* Cell Division

First in Grade 12

Adair Borges Billings Senior High School
The Effects of Nutrient Supplementation on In-situ Bioremediation

MSU-B Student Scholarships:

John Mueller
Ellen Hyams
Jacqueline Stergar-Elliott

Special Industry Awards

American Meteorological Association

Daniel Johnson Sidney Middle School
Pollution Here, Pollution There, Pollution Everywhere (Acid Rain)

Alexander Novasio Sandstone School
Powdered Milk Sunset

American Psychological Association

Hannah Wollenburg Luther School
Reading Right

ASM Materials Education Foundation

Mattie Steinley Sidney Middle School
Heat Wave

Association of Women Geoscientists

Rebeca Strong Lewis & Clark 7-8
Your Drinking Water: It's Legal, But is It Safe?

Beartooth Stockgrowers Association

Jacqueline Stergar-Elliott & Ellen Hyams Billings Central Catholic High School
Waste Management for Cattle Feedlots - Methods to Deactivate Antibiotics and Reduce Antibiotic-resistant Bacteria in Solid Waste

Billings Engineers Club

Lane Butler Carter County High School
The Effects of Temperature & CO₂ on Painted Lady Butterfly (*Vanessa cardui*) Larvae

Competition Wireline

Jakim Ricketts Winans Elementary
How Fast is Your Fastest?

Grace Wroot Sandstone School
Moon or Moon Active

Crowne Plaza

Carrie Cota Roundup Central School
How Salty Does the Sea Have to be for an Egg to Float?

Cudd Services

William Mickelson Highland Park Elementary
Natural Water Filtration

D & M Water Service

Jesse Madill Fort Smith School
Solar Panels from Pop Cans

Alison Weiss Arrowhead Elementary School
Reduce Re-read Recycle

Kalyssa Youde Youde Academy
A Cup of Joe to Grow

Moritz Little Luther School
Go Green Planet

Energy Consultants

Rollie Davis-Lowery Roundup Central School
Stars and the Moon

Sara Snyder McKinley School
Global Greenhouse

Hohn Engineering

Madeleine Fink VanMaren Home School
Mushroom Polyp Propagation: More or Less Light?

Chisum Lewis & Colin Moran Sidney Middle School
The Ferocious Fire

Innovative Technology Solutions

Jeffrey Kampfe Luther School
Imagine That!

I-SWEEEP

James Eversole Absarokee High School
Biodiesel

J & R Enterprises Inc.

Jacob Pankratz Pankratz Home School
My Nerves are Frozen

Kelsie Harriman Sleeping Giant Middle School
In the Zone

Emma Woodring Woodring Home School
Zit Zappers

Jessica Raville & Kylee Zugaza Absarokee High School
How Deep is Your Clean?

Sarah Hagan & Taylor Steubs Billings Central Catholic High School
The Effect of Melatonin on the Survival of UV-irradiated *Saccharomyces cerevisiae*

Joy Stevens, PLLC Award

Tommy Bolckom Luther School
Cellular Buzz

Mad Science of Montana

Aubrey Walter St. Francis Intermediate School
Shiver Solution

Montana Contractors Association

Cameron Paul Paul Home School
Amazing Bridges

Montana Geological Society

Jonah Prill Arrowhead Elementary School
The Impact of Disturbed or Non-vegetated Soil Around Riparian Areas

Colton Stampfel Absarokee School
Magnetic Power

MSU-Billings Health & Human Performance Department

Austin Amestoy Fred W. Graff School
Are You Really Going to Drink Out of That? Is Bacteria Building Up in Your Water Bottle?

Sarah Hagan & Taylor Steubs Billings Central Catholic High School
The Effect of Melatonin on the Survival of UV-irradiated *Saccharomyces cerevisiae*

Nance Resources Inc.

Macie Flamm Hardin Primary School
Measuring Tree Growth

Riley Singer McKinley School
No Pain, Lots of Game

National Society of Professional Engineers

Tyler Stenson Stenson Home School
The Power of Color

NOAA

Levi Lynde Luther School
Checking the Air

Ricoh Corporation

Austin Marchwinski Elysian School
Grey Water: Saving the Planet One Drop at a Time

The Mack Award

Samuel Saarel Winans Elementary
A Soft Landing Guaranteed

Society for In Vitro Biology

Tyler Nelson, Kenda Laber & Margaret Wilmouth Billings Central Catholic High School
The Identification of Methicillin-resistant *Staphylococcus aureus* in Potential Carriers Associated with High-risk Environments

Society of Petroleum Engineers

Jake Michels Shepherd Elementary School
Solar Cell Secrets

Ted & Betsy Campen Earth Science Award

Carrie Cota Roundup Central School
How Salty Does the Sea Have to be for an Egg to Float?

TK Production Company

Ella Mercer Arrowhead Elementary School
Squishy Scopes

James Graham Mountain View School
How a Lever Works

Levi Youde Youde Academy
C is the Key

Katie Meron Canyon Creek School
Bendy Bones

Garrett Wilson Wilson Home School
Temperature & Surface Tension

Morgan Lee St. Francis Intermediate School
M & M's vs Skittles

Cassandra Haverkamp Roundup Central School
Owl Pellets

Rachelle Weyerbacher Kinsey School
The Felon Fluid

Nicole Moore Sidney Middle School
Lather & Rinse or Pump & Run?

US Air Force

Katie Hart Laurel Middle School
The Cost of Target Practice

Ayla Brown Kircher School
See Me Shine

Alex Wiens Sandstone School
Effects of Flight

Callie Wollenburg Luther School
Hover Above

US Army

Chelsey Eubank & Maria Miller Billings Central Catholic High School
Toxicology of Endocrine Disruptors on Ethnology of Betta Fish

Lane Butler Carter County High School
The Effects of Temperature & CO2 on Painted Lady Butterfly (*Vanessa cardui*) Larvae

Lily Westerhoff Huntley Project High School
Shocking Power

Elijah Barbour Absarokee School
Strong as the Average Noodle

US Dept of Health & Human Services

Chad Gray Sidney Middle School
Does Lack of Sleep Affect Athletic Activity?

US Metric Association

Lily Westerhoff Huntley Project High School
Shocking Power

US Navy/Marine Corps

Brooklyn Bledsoe McKinley School
Air Motor

Rachelle Weyerbacher Kinsey School
The Felon Fluid

Levi Lynde Luther School
Checking the Air

Jase Paul Paul Home School
Forms of Energy: Part 2 Wind

Walker's Grill

Anney Sokoloski Meadowlark Elementary
 Let's "C" If There is More or Less

Wardell Property Management

Cole Westerlund Arrowhead Elementary School
 What is Arrowhead School's Dirtiest Area?

Water Environment Federation - Stockholm Junior Water Prize

Adair Borges Billings Senior High School
 The Effects of Nutrient Supplementation on In-situ Bioremediation

Welter Consulting Inc

Macie Flamm Hardin Primary School
 Measuring Tree Growth

Aidan Harrington St. Francis Intermediate School
 Slingshot Science

Yale Science & Engineering Association

Paul Gillig, Justin MacDonald & John Werner Billings Central Catholic High School
 Molecular Evolution of Disease Utilizing a Comparative Genomics Analysis

Yellowstone Valley Animal Shelter

Traven Olson Kircher School
 2 Eat or 2 B Eaten

Venton Arce St. Francis Intermediate School
 Best Paw Forward

ZooMontana

Zachary Even Highland Park Elementary
 Fatty Insulators

Leanna Markovics Silverbow Montessori School
 Water Volume and Seed Germination

Artistic Awards

Macie Flamm Grade 1
 Hardin Primary School
 Measuring Tree Growth

Jesse Harvkey Grade 8
 Absarokee School
 The Da Vinci Experience: Giant Crossbow

Ellan Hyams & Jacqueline Stergar-Elliot Grade 11
 Billings Central Catholic High School
 Waste Management for Cattle Feedlots – Methods to Deactivate Antibiotics and Reduce Antibiotic-resistant Bacteria in Solid Waste

Craftsmanship Awards

Larissa Saarel Gr. 4
 Winans Elementary School, Livingston
 The Chia Project

Rachelle Weyerbacher Gr. 7
 Kinsey School
 Felon Fluid

Kaitlyn Hammond, Ashleigh Walter & Ryan Mack Gr. 11
 Billings Central Catholic High School
 Utilization of Saccharomyces cerevisiae and Caenorhabditis elegans to Assess Potential Biological Effects of Static Magnetic Fields

Creativity Awards

Katie Upchurch Grade 6
Upchurch Home School
What's Up Dog?

Joshua Gallagher & Cody Jacobson Grade 7
Absarokee School
Regular vs Goofy and New vs Old

Molly Markus Grade 11
Billings Senior High School
Cecil's Stomach

Future Scientist

Frances Graham Gr. 5
Mountain View School, Red Lodge
Testing Electromagnets

Alaini Lorash & Taylor Flynn Grade 8
Absarokee School
Trees: Are They Safe?

Ellan Hyams & Jacqueline Stergar-Elliott Grade 11
Billings Central Catholic High School
Waste Management for Cattle Feedlots – Methods to Deactivate Antibiotics and Reduce Antibiotic-resistant Bacteria in Solid Waste

Yellowstone Valley Medical Society Alliance Teacher's Award

Catherine Frazer, Absarokee School, Absarokee

MSU-B Teacher's Scholarship

Carol Kron, B.A. Winans School, Livingston

Winners of ISEF Prize

Adair Borges Gr. 12 Billings Senior High School
The Effects of Nutrient Supplementation on In-situ Bioremediation

John Mueller Gr. 11 Billings Central Catholic High School
Identification of Genes Involved in Resveratrol Action on *Saccharomyces cerevisiae* Cell Division

These two individuals have won all-expenses paid trips to compete at the Intel International Science and Engineering Fair in San Jose, CA this May 9-14, 2010.