Montana Tech Regional Science and Engineering Fair
Division 2   Bronze Medal Winners

**Grade: 5**

**Behavioral**

5B009  **Texting**  
Reynolds, Dale  
West Elementary

**Earth**

5E008  **Avalanche Transceivers vs. Average Joe**  
Raden, Dawson  
Ophir Elementary

**Life**

5L003  **Cottonwood Crisis**  
Lingle, Emmett  
Ennis Schools
5L011  **Greasy Potato Chips**  
Cashell, Coby  
Emerson Elementary
5L014  **Primary Color Perception**  
McCabe, Ben  
Ophir Elementary

**Physical**

5P007  **Crystal Radio**  
Clark, Leif  
Hillcrest Elementary
5P037  **Why is the Sky Blue?**  
Hokanson, Joree  
Sheridan Middle School

**Grade: 6**

**Behavioral**

6B003  **Can You Delay Gratification?**  
Calvin, Nicole  
Ophir Middle School
Middleton, Kate  
Ophir Middle School

**Earth**

6E010  **Tsunamis**  
Wlaysewski, Tristen  
West Elementary

**Life**

6L013  **Cheers To Your Smile**  
Oxnam, Kelsie  
Fred Moodry Middle School
Peterson, Sydnie  
Fred Moodry Middle School
6L018  **Dirty Mouth?**  
McDonnell, Grace  
Townsend Middle School
6L014  **Impacts of Mining**  
Hill, Braxton  
Fred Moodry Middle School
McLean, Colin  
Fred Moodry Middle School
6L011  **Man vs. Dog**  
Neary, Kelliann  
Kennedy Elementary
6L007  **Nutrients Away**  
Rintala, Leah  
Kennedy Elementary
Montana Tech Regional Science and Engineering Fair
Division 2     Bronze Medal Winners

Physical

6P038  Avalanche
  Omohundro, Charis
  Chief Joseph Middle School

6P022  Does the Rusting Process Need Oxygen?
  Dickinson, Gus
  Ennis Schools

6P049  Light or Dark
  Amende, Avery
  Chief Joseph Middle School

6P023  What Are Coins Made Of?
  Gammons, Tom
  Kennedy Elementary

Grade:  7

Behavioral

7B013  Bag Design vs. Carrots Eaten: A Study of Visual Attraction
  Landon, Camille
  Sacajawea Middle School

7B007  Moody Blues
  Hines, Craig
  Townsend Middle School

Earth

7E009  A Pervious Concrete Filter
  Bough, Dasha
  Butler, Bella
  Ophir Middle School

7E008  Elevation vs. Snow Texture
  Carson, Athena
  Sacajawea Middle School

Life

7L029  Algae Growth vs. Fertilizer Amount
  Johnston, Gisele
  Stabler, Samantha
  Chief Joseph Middle School

7L035  Bacterial Conjugation
  Bradshaw, Mae
  Mailey, Brooklyn
  Chief Joseph Middle School

7L037  Extremophiles from the Sky
  Bos, Brittany
  Sveen, Elsa
  Chief Joseph Middle School

7L023  Nature vs. Nurture
  Godoy, Bianca
  Locker, Luisa
  Ophir Middle School

7L008  Save the Trees
  Story, Zack
  Three Forks Middle School

7L028  The Sidewalk Effect
  Williams, Cassie
  Twin Bridges Middle School

7L009  Water Plants… Who Knew?
  Rauser, Madison
  Three Forks Middle School

7L024  What Causes Excess Algae Growth?
  Quackenbush, Ellie
  Tatom, Sayler
  Ophir Middle School
Montana Tech Regional Science and Engineering Fair  
Division 2   Bronze Medal Winners

Physical

7P025  Beacon Design vs. Search Time: A Study of Avalanche Search Techniques  
       Birkeland, Erika  
       Sacajawea Middle School

7P033  Blade Sharpness vs. Speed  
       Patten, Tilby  
       Sacajawea Middle School

7P013  Cloudy With a Chance of Science  
       Saltzman, Kara  
       Townsend Middle School

7P029  Enzyme-Catalyzed Reaction Rates  
       Kim, Jisue  
       Sacajawea Middle School

7P003  Let’s Get to the Root of the Problem  
       Jorgensen, Katie  
       Fred Moodry Middle School

7P018  The Power of Salt  
       Nabity, Amber  
       Sacajawea Middle School

Grade: 8

Behavioral

8B008  Can You Classically Condition Fish?  
       Bartzick, Rachael  
       Ophir Middle School

8B002  Distracted Reaction  
       Long, Cayley  
       Three Forks Middle School

Earth

8E001  Is Green Clean Really Clean?  
       Dwyer, Frank  
       Butte Central Schools
       O’Herron, Patrick  
       Butte Central Schools

Life

8L021  Beetle Busters  
       Taylor, Tristen  
       Townsend Middle School

8L006  Effect of Monster Energy on Running Performance  
       Raiser, Nicholas  
       East Middle School - Butte

8L017  Sugar  
       Bakkum, John  
       Townsend Middle School

8L019  The Grief of Gluten  
       Dexter, Lynzee  
       Townsend Middle School

Physical

8P018  Falling Down  
       Duval, Chase  
       Three Forks Middle School

8P031  Salted Results  
       Schering, Braden  
       Montana City School

8P035  Switch to Motion  
       Bair, Ryker  
       Townsend Middle School

8P001  The Big Question: Duct or Duck?  
       Dupuis, Megan  
       Divide Elementary
       Kessler, Winchester  
       Divide Elementary

8P015  To Steam or not to Steam?  
       Brasher, Griffin  
       East Middle School - Butte
Grade:  5

Behavioral

  5B010  **Does My Plate Add Up?**
        Manson, Kate                      Silver Bow Montessori School

Earth

  5E003  **Is One Snow Stability Test Enough?**
        Bell, Reece                     Ophir Elementary
        Boersma, Kodi

Life

  5L004  **Horse vs. Human**
        Russell, Amanda                Ennis Schools
  5L013  **The Effect of Pollution on Plants**
        Swenson, Solae                Ophir Elementary

Physical

  5P031  **Gauss Rifle**
        Schnabel, Patrick              West Elementary
  5P014  **Mirror, Mirror**
        Wigen, Allison                 Hillcrest Elementary

Grade:  6

Behavioral

  6B005  **Brain vs. Gender**
        Lee, Shacia                    Chief Joseph Middle School

Earth

  6E006  **To Fertilize or Not?**
        Hufnagel, Ethan               Townsend Middle School

Life

  6L016  **Battle of the Sexes-Caffeine Edition**
        Eckmann, Josh                 Montana City School
  6L036  **DNA Forensics**
        Dlakic, Amilla                Chief Joseph Middle School
  6L005  **Drugged Plants**
        Jenkins, Josie                Ennis Schools
  6L020  **Geotropism**
        Hogan, Abigail                Ophir Middle School
  6L037  **Is It Worth It?**
        Delger, Ella                  Chief Joseph Middle School
        Kraus, Claire
  6L026  **Is Your Cellphone Dirtier Than a Public Restroom?**
        Ball, Calvin                  Silver Bow Montessori School
  6L001  **The Hiding Games**
        McGlynn, Selika               Hillcrest Elementary
  6L006  **The Magical Music Mind Connection**
        Frey, Kelsie                  Ennis Schools
Montana Tech Regional Science and Engineering Fair  
Division 2  Silver Medal Winners

**Physical**

6P042  A Wet Experience  
McCormick, Derian  
West Elementary

6P003  Backspin on a Basketball  
Casagranda, Erik  
Whittier Elementary-Butte

6P026  Build a Dimmer Switch  
Werkmeister, Nick  
Kennedy Elementary

6P048  How Does the Size and Shape of an Airplane Wing Affect Overall Flight?  
Alan, Samuel  
Emmons, Deklin  
Chief Joseph Middle School

6P009  The "Hull" Deal  
Zora, Niklaus  
Hillcrest Elementary

6P051  What is the Effect of Temperature of Tuning of Instruments  
Cole, Ella  
Prendergrast, Meriel  
Chief Joseph Middle School

6P024  Who Needs NorthWestern Energy?  
Walsh, Riley  
Kennedy Elementary

**Grade: 7**

**Behavioral**

7B015  Can You Spot a Fake Smile? An Investigation into the Relationship Between Age, Attitude,  
Chandler, Elaine  
Sacajawea Middle School

**Earth**

7E012  The Effect of Carbon Dioxide on Infrared Radiation Escape  
McCau, Ellery  
Chief Joseph Middle School

7E005  Water Retention vs. Compost Mixture  
DesEnfants, Dale  
Sacajawea Middle School

**Life**

7L036  Electo-Culture  
Spicher, Jack  
Chief Joseph Middle School

**Physical**

7P054  Hovercraft Forces and Motion  
Vidmar, Hailey  
Chief Joseph Middle School

**Grade: 8**

**Behavioral**

8B004  Are You Stressed  
Oxnam, Bailee  
Fred Moodry Middle School

8B003  Neon Memory  
Mesenbrink, Ashley  
Three Forks Middle School

**Life**

8L011  Bug Out  
Broling, Claire  
Three Forks Middle School

8L020  Healthy Water, Healthy Cows  
Hoeffner, Caitlin  
Townsend Middle School
Montana Tech Regional Science and Engineering Fair
Division 2    Silver Medal Winners

Physical

8P036   Mirror Power
        Bruner, Robert Lee

8P017   Soak It Up Baby
        Pruett, Janelle

8P008   Solar Panel Heat Efficiency
        Holm, Desmond

8P010   The Making of Hydrogen
        Bingham, Harrison

Homeschool

Three Forks Middle School

East Middle School - Butte

East Middle School - Butte
# Montana Tech Regional Science and Engineering Fair
## Division 2  Gold Medal Winners

### Grade: 5

#### Behavioral
- **5B004**  Mom I Hate Generic Food  
  Freebourn, Hope  
  Emerson Elementary
- **5B005**  The Nose Knows  
  Seitz, Mahri  
  Montana City School

#### Earth
- **5E001**  Seasons of Water  
  Klein, Jourdain  
  Ennis Schools

#### Life
- **5L001**  Germs Can End with You  
  McCloskey, Dan  
  Hillcrest Elementary
- **5L012**  Is Cleaning Lupine Seeds Necessary?  
  Bough, Kolya  
  Ophir Elementary
- **5L021**  Take a Breather  
  Tierney, Brittney  
  Silver Bow Montessori School

#### Physical
- **5P041**  Cloud Chamber and Magnetism  
  Steiger, Heidi  
  Silver Bow Montessori School
- **5P036**  Hot Air Balloon  
  Lee, Moxen  
  Sheridan Middle School
- **5P009**  Move It, Move It  
  Connors, Clint  
  Hillcrest Elementary

### Grade: 6

#### Behavioral
- **6B006**  Doing Two Things at Once  
  Krishna, Pushya  
  Chief Joseph Middle School
- **6B010**  The Effect of Age on Short Term Memory  
  McMakin, Wilson  
  Chief Joseph Middle School

#### Earth
- **6E004**  The Key to Germination  
  Noyes, Tyler  
  Townsend Middle School
- **6E005**  Townsend School's Carbon Footprint  
  Hatfield, Easton  
  Townsend Middle School

#### Life
- **6L033**  Bacteria Builders  
  Stewart, Savanna  
  Twin Bridges Middle School
- **6L022**  Can Headphones Harm Hearing?  
  Raden, Jackson  
  Ophir Middle School
- **6L025**  Microbes in Canned Dog Food  
  Markovics, Leanna  
  Silver Bow Montessori School
Montana Tech Regional Science and Engineering Fair
Division 2    Gold Medal Winners

Life
6L012  Out on a Limb
   Heffernan, Riley
   Kellegher, Kynan
   Fred Moodry Middle School
6L019  Vermicomposting
   Holder, Kuka
   Ophir Middle School
6L021  Water Transpiration
   Barton, Julia
   Ophir Middle School

Physical
6P006  Bridge Design Loading
   McClafferty, Kaidy
   Hillcrest Elementary
6P011  The Glowing Pickle
   Weldon, Isaiah
   Hillcrest Elementary
6P021  The Pulse Motor
   Germain, Liam
   Ennis Schools
6P034  This Bed is Just Right
   Leachman, Abby
   Townsend Middle School
6P040  Water Distillation
   Madison, Shanna
   West Elementary
6P052  What Frenzies of Light Do Solar Panels Use the Most?
   Hall, Laina
   Swenson, Lenka
   Chief Joseph Middle School

Grade: 7

Behavioral
7B004  Am I Scared of You?
   Broling, Collette
   Three Forks Middle School
7B010  Angry You, Angry Me, Does That Make You Feel Blue?
   Mahoney, Devin
   Sacajawea Middle School
7B011  Would You Conform? An Investigation of the Conforming Rates of 7th Graders
   Brauch, Hannah
   Sacajawea Middle School

Earth
7E013  How Earth's Magnetic Field is Affected by Solar Storms
   Bertelsen, Malia
   Petitt, Erin
   Chief Joseph Middle School
7E004  Turbine Design
   Graveley, Jaden
   Townsend Middle School

Life
7L032  Comparing Water Fountain Bacteria through Genomic Fingerprinting
   Vilhauer, Maddy
   Chief Joseph Middle School
# Montana Tech Regional Science and Engineering Fair
## Division 2  Gold Medal Winners

### Physical

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Grade</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7P051 Light Scattering in a Suspension</strong></td>
<td></td>
<td>Zelver, Marcos</td>
</tr>
<tr>
<td></td>
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<td>Chief Joseph Middle School</td>
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<td></td>
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<td>Zetzer, Alan</td>
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<tr>
<td><strong>7P060 The Power of Water</strong></td>
<td></td>
<td>Norick, Colin</td>
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<td>Deer Park Middle School</td>
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<tr>
<td><strong>7P053 Water Amount vs. Rocket Height</strong></td>
<td></td>
<td>Feigle, Holt</td>
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<td>Chief Joseph Middle School</td>
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<tr>
<td></td>
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<td>Jahner, Tanner</td>
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<tr>
<td></td>
<td>8</td>
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</table>

### Behavioral

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Grade</th>
<th>School</th>
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</thead>
<tbody>
<tr>
<td><strong>8B006 Wait What?</strong></td>
<td>8</td>
<td>Wood, Amelia</td>
</tr>
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<td></td>
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<td>Fred Moodry Middle School</td>
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### Earth

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Grade</th>
<th>School</th>
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<tbody>
<tr>
<td><strong>8E005 Water Wonders</strong></td>
<td></td>
<td>McDonnell, Katherine</td>
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<tr>
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<td>Townsend Middle School</td>
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</tbody>
</table>

### Life

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Grade</th>
<th>School</th>
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</thead>
<tbody>
<tr>
<td><strong>8L026 Geobacter - The Future of Energy</strong></td>
<td></td>
<td>Fisher-Dykman, Sierra</td>
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<td>Chief Joseph Middle School</td>
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<tr>
<td><strong>8L005 How Temperature Changes the Structures of Bacteriophage P22</strong></td>
<td></td>
<td>Tu, Karissa</td>
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<td>Chief Joseph Middle School</td>
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<tr>
<td><strong>8L027 Investigating the Abundance and Diversity of Ice Nucleation Active Bacteria</strong></td>
<td></td>
<td>Jordan, Chase</td>
</tr>
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<td></td>
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<td>Chief Joseph Middle School</td>
</tr>
</tbody>
</table>

### Physical

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Grade</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8P006 Do Model Rocket Engines Actually Have the Thrust That the Packages Say They Do?</strong></td>
<td>8</td>
<td>Dean, Seth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>East Middle School - Butte</td>
</tr>
<tr>
<td><strong>8P016 Get the Lead Out! (of Crystal Glass)</strong></td>
<td></td>
<td>Gammons, Maggie</td>
</tr>
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<td>East Middle School - Butte</td>
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<tr>
<td><strong>8P012 Radon</strong></td>
<td></td>
<td>Clark, Gunther</td>
</tr>
<tr>
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<td>East Middle School - Butte</td>
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<tr>
<td><strong>8P011 Solar Power Battery Power in Simple Motors</strong></td>
<td></td>
<td>Simon, Mario</td>
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<td>East Middle School - Butte</td>
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<tr>
<td><strong>8P022 Velocity or Mass</strong></td>
<td></td>
<td>Everett, Bridger</td>
</tr>
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<td>Fred Moodry Middle School</td>
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</tbody>
</table>
## Award: Berkeley Pit Educational Advisory Committee Award ($25 Cash Award)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project/Activity</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jade Summers</td>
<td>Lead</td>
<td>West Elementary</td>
</tr>
<tr>
<td>Katherine McDonnell</td>
<td>Water Wonders</td>
<td>Townsend Middle School</td>
</tr>
<tr>
<td>Madison Rauser</td>
<td>Water Plants… Who Knew?</td>
<td>Three Forks Middle School</td>
</tr>
<tr>
<td>Solae Swenson</td>
<td>The Effect of Pollution on Plants</td>
<td>Ophir Elementary</td>
</tr>
</tbody>
</table>

## Award: Big Hole River Foundation Award ($25 Cash Award & Newsletter Subscription)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project/Activity</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halley Bennett</td>
<td>Rainbow Trout Feeding Habits: Point Source vs. Hand Spreading</td>
<td>Sacajawea Middle School</td>
</tr>
<tr>
<td>Jourdain Klein</td>
<td>Seasons of Water</td>
<td>Ennis Schools</td>
</tr>
</tbody>
</table>

## Award: Clark Fork Watershed Education Program (cfwep.org) ($50 Cash Award)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project/Activity</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claire Broling</td>
<td>Bug Out</td>
<td>Three Forks Middle School</td>
</tr>
</tbody>
</table>

## Award: Dr. Gordon Haaland Memorial

<table>
<thead>
<tr>
<th>Name</th>
<th>Project/Activity</th>
<th>School</th>
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</thead>
<tbody>
<tr>
<td>Amanda Russell</td>
<td>Horse vs. Human</td>
<td>Ennis Schools</td>
</tr>
</tbody>
</table>

## Award: George Grant Trout Unlimited ($50 Cash Award and one-year Membership to Trout Unlimited)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project/Activity</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claire Kraus</td>
<td>Is It Worth It?</td>
<td>Chief Joseph Middle School</td>
</tr>
<tr>
<td>Ella Delger</td>
<td>Is It Worth It?</td>
<td>Chief Joseph Middle School</td>
</tr>
</tbody>
</table>

## Award: Montana Fish, Wildlife & Parks (One Year Subscription to Montana Outdoors)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project/Activity</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claire Broling</td>
<td>Bug Out</td>
<td>Three Forks Middle School</td>
</tr>
<tr>
<td>Emmett Lingle</td>
<td>Cottonwood Crisis</td>
<td>Ennis Schools</td>
</tr>
<tr>
<td>Halley Bennett</td>
<td>Rainbow Trout Feeding Habits: Point Source vs. Hand Spreading</td>
<td>Sacajawea Middle School</td>
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<tr>
<td>Name</td>
<td>Project Title</td>
<td>School</td>
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<tr>
<td>-----------------------</td>
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</tr>
<tr>
<td>Kaybrea Ray</td>
<td>Are You Warm?</td>
<td>Three Forks Middle School</td>
</tr>
<tr>
<td>Kynan Kellegher</td>
<td>Out on a Limb</td>
<td>Fred Moodry Middle School</td>
</tr>
<tr>
<td>Michael Bruner</td>
<td>Goats and Weed Buffet</td>
<td>West Elementary</td>
</tr>
<tr>
<td>Riley Heffernan</td>
<td>Out on a Limb</td>
<td>Fred Moodry Middle School</td>
</tr>
<tr>
<td>Sam Steele</td>
<td>Snow Study: An Investigation of Factors Affecting Snow Density</td>
<td>Sacajawea Middle School</td>
</tr>
<tr>
<td>Selika McGlynn</td>
<td>The Hiding Games</td>
<td>Hillcrest Elementary</td>
</tr>
<tr>
<td>Tristin Coates</td>
<td>Can We Protect Our Forest From the Mountain Pine Beetle?</td>
<td>East Middle School - Butte</td>
</tr>
</tbody>
</table>

**Award: Montana Orthopedics ($25 Cash Award)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelsie Oxnam</td>
<td>Cheers To Your Smile</td>
<td>Fred Moodry Middle School</td>
</tr>
<tr>
<td>Lynzee Dexter</td>
<td>The Grief of Gluten</td>
<td>Townsend Middle School</td>
</tr>
<tr>
<td>Sydnie Peterson</td>
<td>Cheers To Your Smile</td>
<td>Fred Moodry Middle School</td>
</tr>
</tbody>
</table>

**Award: Montana Tech Electrical Engineering Department Award (Sweatshirt)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack Spicher</td>
<td>Electo-Culture</td>
<td>Chief Joseph Middle School</td>
</tr>
</tbody>
</table>

**Award: Montana Tech Institutional Research - Most Innovative Project ($25 Cash Award)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carlin Kempt</td>
<td>Prosthetics: Exercise vs. Swelling</td>
<td>Sacajawea Middle School</td>
</tr>
</tbody>
</table>

**Award: Montana Tech Math Department Award (Book)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>School</th>
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</thead>
<tbody>
<tr>
<td>Matthew Morgan</td>
<td>What Part of the Bat Produces the Greatest Exit Speed?</td>
<td>Montana City School</td>
</tr>
<tr>
<td>Trey Kopp</td>
<td>Catapult</td>
<td>Kennedy Elementary</td>
</tr>
</tbody>
</table>
### Award: Montana Tech Mineral Museum (Discover Display Kit)

<table>
<thead>
<tr>
<th>Award Recipient</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dawson Raden</td>
<td>Avalanche Tranceivers vs. Average Joe</td>
<td>Ophir Elementary</td>
</tr>
</tbody>
</table>

### Award: Montana Tech Petroleum Engineering Department Award (Sweatshirt)

<table>
<thead>
<tr>
<th>Award Recipient</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riley Jensen</td>
<td>Propeller Power</td>
<td>Three Forks Middle School</td>
</tr>
</tbody>
</table>

### Award: Pioneer Technical

<table>
<thead>
<tr>
<th>Award Recipient</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colton Ely-Ross</td>
<td>Erosion</td>
<td>Fred Moodry Middle School</td>
</tr>
<tr>
<td>Easton Hatfield</td>
<td>Townsend School's Carbon Footprint</td>
<td>Townsend Middle School</td>
</tr>
<tr>
<td>Frank Dwyer</td>
<td>Is Green Clean Really Clean?</td>
<td>Butte Central Schools</td>
</tr>
<tr>
<td>Kuka Holder</td>
<td>Vermicomposting</td>
<td>Ophir Middle School</td>
</tr>
<tr>
<td>Patrick O'Herron</td>
<td>Is Green Clean Really Clean?</td>
<td>Butte Central Schools</td>
</tr>
</tbody>
</table>

### Award: Bureau of Land Management

<table>
<thead>
<tr>
<th>Award Recipient</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bailey Mays</td>
<td>Which Bread Molds Faster?</td>
<td>Twin Bridges Middle School</td>
</tr>
<tr>
<td>Caitlyn Todd</td>
<td>From Juice to Alcohol</td>
<td>Three Forks Middle School</td>
</tr>
<tr>
<td>Carsten Quam</td>
<td>Static Electricity</td>
<td>Hillcrest Elementary</td>
</tr>
<tr>
<td>Emily Svendsen</td>
<td>Achooh</td>
<td>Fred Moodry Middle School</td>
</tr>
<tr>
<td>Isaiah Waldman</td>
<td>Can I Make Quicksand?</td>
<td>West Elementary</td>
</tr>
<tr>
<td>Jace Maroney</td>
<td>Bulls Eye</td>
<td>East Middle School - Butte</td>
</tr>
<tr>
<td>Jordan Nelson</td>
<td>Achooh</td>
<td>Fred Moodry Middle School</td>
</tr>
</tbody>
</table>
# Montana Tech Regional Science and Engineering Fair
## Division II  Special Awards

<table>
<thead>
<tr>
<th>Award:</th>
<th>Bureau of Land Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keanan Fitzpatrick</td>
<td>Cool Junctions</td>
</tr>
<tr>
<td>Kylie Noack</td>
<td>Crazy Colors!</td>
</tr>
<tr>
<td>Kyra Moreni</td>
<td>Humidity and Evaporation</td>
</tr>
<tr>
<td>Mami Scherman</td>
<td>Will It Bake?</td>
</tr>
<tr>
<td>Nathaniel Morin-Ferguson</td>
<td>Going Through the Motions: Does Mental Rehearsal Improve Your Free-Throw Percentage?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Award:</th>
<th>Student Assistance Foundation Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halley Bennett</td>
<td>Rainbow Trout Feeding Habits: Point Source vs. Hand Spreading</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Award:</th>
<th>NRD Award ($50 Savings Bond)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kynan Kellegher</td>
<td>Out on a Limb</td>
</tr>
<tr>
<td>Riley Heffernan</td>
<td>Out on a Limb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Award:</th>
<th>Professional &amp; Technical Communications Award ($25 Cash Award)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evette Morgan</td>
<td>Do Elite Male and Female Players Have the Same Swings?</td>
</tr>
<tr>
<td>Rebecca Schnabel</td>
<td>Vanishing Stars?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Award:</th>
<th>Sigma Xi Award (5th Grade Female Student) (Book)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allison Wigen</td>
<td>Mirror, Mirror</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Award:</th>
<th>Montana Tech &quot;Best of the Best Award&quot; (Biological Sciences)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karissa Tu</td>
<td>How Temperature Changes the Structures of Bacteriophage P22</td>
</tr>
</tbody>
</table>
Montana Tech Regional Science and Engineering Fair  
Division II  Special Awards

**Award: PPL Montana Award ($25 Cash Award)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Colin Norick</td>
<td>The Power of Water</td>
<td>Deer Park Middle School</td>
</tr>
<tr>
<td>Desmond Holm</td>
<td>Solar Panel Heat Efficiency</td>
<td>East Middle School - Butte</td>
</tr>
<tr>
<td>Liam Germain</td>
<td>The Pulse Motor</td>
<td>Ennis Schools</td>
</tr>
<tr>
<td>Robert Lee Bruner</td>
<td>Mirror Power</td>
<td>Homeschool</td>
</tr>
</tbody>
</table>

**Award: Paul & Paulette Miller Award (Top 7th-8th) ($50 Cash Award & Sweatshirt)**

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Karissa Tu</td>
<td>How Temperature Changes the Structures of Bacteriophage P22</td>
<td>Chief Joseph Middle School</td>
</tr>
</tbody>
</table>

**Award: Charles Pascavage (Top 5th-6th) ($50 Cash Award & Sweatshirt)**

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Easton Hatfield</td>
<td>Townsend School's Carbon Footprint</td>
<td>Townsend Middle School</td>
</tr>
</tbody>
</table>

**Award: Top "10" Award - Yellowstone Trip (All expense paid trip to Yellowstone Park)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alan Zetzer</td>
<td>Light Scattering in a Suspension</td>
<td>Chief Joseph Middle School</td>
</tr>
<tr>
<td>Amelia Wood</td>
<td>Wait What?</td>
<td>Fred Moodry Middle School</td>
</tr>
<tr>
<td>Colin Norick</td>
<td>The Power of Water</td>
<td>Deer Park Middle School</td>
</tr>
<tr>
<td>Devin Mahoney</td>
<td>Angry You, Angry Me, Does That Make You Feel Blue?</td>
<td>Sacajawea Middle School</td>
</tr>
<tr>
<td>Erin Petitt</td>
<td>How Earth's Magnetic Field is Affected by Solar Storms</td>
<td>Chief Joseph Middle School</td>
</tr>
<tr>
<td>Gunther Clark</td>
<td>Radon</td>
<td>East Middle School - Butte</td>
</tr>
<tr>
<td>Karissa Tu</td>
<td>How Temperature Changes the Structures of Bacteriophage P22</td>
<td>Chief Joseph Middle School</td>
</tr>
<tr>
<td>Katherine McDonnell</td>
<td>Water Wonders</td>
<td>Townsend Middle School</td>
</tr>
</tbody>
</table>
### Award: Top "10" Award - Yellowstone Trip (All expense paid trip to Yellowstone Park)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Details</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Maddy Vilhauer</td>
<td>Comparing Water Fountain Bacteria through Genomic Fingerprinting</td>
<td>Chief Joseph Middle School</td>
</tr>
<tr>
<td>Malia Bertelsen</td>
<td>How Earth's Magnetic Field is Affected by Solar Storms</td>
<td>Chief Joseph Middle School</td>
</tr>
<tr>
<td>Marcos Zelver</td>
<td>Light Scattering in a Suspension</td>
<td>Chief Joseph Middle School</td>
</tr>
<tr>
<td>Sierra Fisher-Dykman</td>
<td>Geobacter - The Future of Energy</td>
<td>Chief Joseph Middle School</td>
</tr>
</tbody>
</table>

### Award: 2nd Place School Award

- **Townsend Middle School**  
  Townsend, Montana

### Award: 1st Place School Award

- **Chief Joseph Middle School**  
  Bozeman, Montana