

| <u>No.</u> | <u>Exhibitor</u> | <u>Title of Exhibit</u> | <u>School</u> | <u>Teacher</u> |
|------------------|--------------------------|--|----------------------------------|-----------------|
| 6th Grade | | | | |
| 601 | Adria Lorraine Hern | Solar Energy | Kenwood Middle School | Karen Harter |
| 602 | Bert M. White | Does Bounce Predict Performance? | Bridgeforth Middle School | Mike Luke |
| 603 | Faith Elizabeth Robinson | Eat Your Water | Rossvie Middle School | Randy Chadwick |
| 604 | Madison Renne Deyoe | Insulating Cups | New Providence Middle School | Andrea Richard |
| 605 | Kathryn Anne French | Tide or Cheer | New Providence Middle School | Anderea Richard |
| 606 | Trey Andrew Bearden | Effects of Water | Montgomery Central Middle School | Nancy Taylor |
| 607 | Summer Brown | Rocket Range USA | Montgomery Central Middle School | Nancy Taylor |
| 608 | Kassandra Rae Beach | Bridging the Gap | Montgomery Central Middle School | Nancy Taylor |
| 7th Grade | | | | |
| 701 | Rachel Nicole Ridenour | Plants and pH | Montgomery Central Middle School | Teri A. Summers |
| 702 | Sophia Monique Epps | Does Density Affect Heat Intake | Rossvie Middle School | Ron Holt |
| 703 | Sydney Ellen Saunders | Creating Lift | Rossvie Middle School | Ron Holt |
| 704 | Brittany Marie Austin | Rust Busters | Rossvie Middle School | Terry Dailey |
| 705 | Kayla Michelle Kannapel | What's Hot What's Not | New Providence Middle School | Sherry R. Hersh |
| 706 | Emily Nicole Stevenson | In Memory of... | New Providence Middle School | Karel Biggs |
| 707 | Jennifer Lee Baldwin | Heating Up | New Providence Middle School | Sherry Hersh |
| 708 | Douglas Lee Austin | When Will It Get Wet | Montgomery Central Middle School | Teri Summers |
| 709 | Kayla Faye Rye | Impurities Afloat | Montgomery Central Middle School | Teri Summers |
| 710 | Arlo Arntson | What is the Effect of Depth and Vegetation on Swamp Gas? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 711 | Shabir A.K. Bhegani | Heat! Bridge! Load! | Martin Luther King, Jr. Magnet | Kathy Lee |

| <u>No.</u> | <u>Exhibitor</u> | <u>Title of Exhibit</u> | <u>School</u> | <u>Teacher</u> |
|------------|---------------------------|---|--------------------------------|----------------|
| 712 | Francis Cambroner | The Effect of Different Salt Water Solutions on the Corrosion of Various Metals | Martin Luther King, Jr. Magnet | Kathy Lee |
| 713 | Rachel Elizabeth Campbell | What Sank My Battleship? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 714 | Christina Chintanaphol | It's Crystally Sweet | Martin Luther King, Jr. Magnet | Kathy Lee |
| 715 | London Colbert | The Art and Science of Bubbles | Martin Luther King, Jr. Magnet | Kathy Lee |
| 716 | Mimee Daosaranh | What is the Effect of Different Preservation Methods on Decaying Apples? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 717 | Alison Dawant | Do Different Soils Affect the Behavior of Worms? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 718 | Marshall Fife | Under Seige | Martin Luther King, Jr. Magnet | Kathy Lee |
| 719 | Jacob Forrest | Hydroelectricity | Martin Luther King, Jr. Magnet | Kathy Lee |
| 720 | Wilson Waters Forrester | What is the Effect of Different Kinds of Water on the Growth of a Plant? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 721 | Harper Clare Ganick | What is the Effect of Different Soil Types on Plant Seeds? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 722 | Kayla Denise Garrett | Bridges: Strength and Durability | Martin Luther King, Jr. Magnet | Kathy Lee |
| 723 | Amelia Anne Marie Hazen | What is the Effect of Different Substances on Ants? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 724 | Katherine Henry | Tea, Anyone? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 725 | April Holloway | Bending Light Through Liquids | Martin Luther King, Jr. Magnet | Kathy Lee |
| 726 | Kimin Huang | Burning Point | Martin Luther King, Jr. Magnet | Kathy Lee |
| 727 | Amber Jena Jackson | Shake Down | Martin Luther King, Jr. Magnet | Kathy Lee |
| 728 | Molly Kessler | Digging Up the "Dirt" in Middle Tennessee | Martin Luther King, Jr. Magnet | Kathy Lee |
| 729 | Megan Kuhn | London Bridges Falling Down | Martin Luther King, Jr. Magnet | Kathy Lee |
| 730 | Johnson Thomas Laney | Fruit or Acid, Which Can Produce the Most Voltage? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 731 | Trey Long | Wood Buster? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 732 | Jake Donlon Lorber | The Effect of Different Widths of Wood on the Efficiency of a Bridge | Martin Luther King, Jr. Magnet | Kathy Lee |

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|-------------------|-------------------------|---|--------------------------------|-----------------------|
| 733 | Ashley Lowe | This Planet is Just Right | Martin Luther King, Jr. Magnet | Kathy Lee |
| 734 | Ashley McLay | A Battery Powered by Liquid | Martin Luther King, Jr. Magnet | Kathy Lee |
| 735 | Courtney Manlove | Freshwater vs. Saltwater | Martin Luther King, Jr. Magnet | Kathy Lee |
| 736 | Simone Marshall | The Effect of Time on the Amount of Vitamin C in Fruit Juices | Martin Luther King, Jr. Magnet | Kathy Lee |
| 737 | Christopher Moradion | Insulators | Martin Luther King, Jr. Magnet | Kathy Lee |
| 738 | Teagan Mullins | The Effect of Changing the Number of Invertebrates on the Biosphere Ecosystem | Martin Luther King, Jr. Magnet | Kathy Lee |
| 739 | David Murphy | Copperplating | Martin Luther King, Jr. Magnet | Kathy Lee |
| 740 | Sarbajeet Nagdas | The Effect of Fluorescent Light on the Amount of Vitamin C in Orange Juice | Martin Luther King, Jr. Magnet | Kathy Lee |
| 741 | Jacob Kemith Nichols | Supporters | Martin Luther King, Jr. Magnet | Kathy Lee |
| 742 | Pavan K. Panjeti | The Effect of Temperature on the Rust on Nails | Martin Luther King, Jr. Magnet | Kathy Lee |
| 743 | Calvin Patimcteepon | Pendulum Swing | Martin Luther King, Jr. Magnet | Kathy Lee |
| 744 | Gainer Gavin Phay | A Shocking Revelation | Martin Luther King, Jr. Magnet | Kathy Lee |
| 745 | Emily Piper | To Infinity and Beyond | Martin Luther King, Jr. Magnet | Kathy Lee |
| 746 | Delaney Leigh Roberts | Macroinvertebrate Head Count | Martin Luther King, Jr. Magnet | Kathy Lee |
| 747 | Nabila Abdus Salam | An Apple a Day Keeps the Doctor Away | Martin Luther King, Jr. Magnet | Kathy Lee |
| 748 | Anthony Alexander Sims | Got Velocity? | Martin Luther King, Jr. Magnet | Kathy Lee |
| 749 | Tiffany Sithiphone | The Effect of Different Fruits and Liquids on Osmosis | Martin Luther King, Jr. Magnet | Kathy Lee |
| 750 | Kate Tully | The Solar Storm Measurer | Martin Luther King, Jr. Magnet | Kathy Lee |
| 751 | Wei (Rose) Wang | Juicing Up Cancer Cells | Martin Luther King, Jr. Magnet | Kathy Lee |
| 752 | Tyler Anne Whitaker | When Science and Cooking Combine | Martin Luther King, Jr. Magnet | Kathy Lee |
| 753 | Danielle Rae Boyd | Got Tie-Dyed Milk? | Blackman Middle School | Gayle Boyd |

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|-------------------|---------------------------|---|--------------------------------|-----------------------|
| 754 | Kayla L. Thompson | The Elaborate Erosion Effect | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 755 | Luis Alfonso Rodriguez | The Effect the pH Level of Soil has on Plant Growth | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 756 | Jessica Nicole Stump | Vitamin Fed Plants | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 757 | Omar Amin Salman | Rainbow Light, Rainbow Bright | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 758 | Melody Kay Zurawski | A Waste of Money | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 759 | Evan Lee Cohen | Does the Shape and Dimension of an Object Affect Aerodynamics | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 760 | Karl Hunter Smith | The Acidity of Nashville | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 761 | Stephen Clark Cameron | Biocell | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 762 | David Aaron Reichley | Trial by Fire | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 763 | Madeleine DeSante Tuzeneu | Acid Reflux - Get It Out of My System | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 764 | Lauren Adrienne Franklin | Does Color Matter? | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 765 | Laura Lynn Ladd | The Explosive Effects of Carbonic Acid | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 766 | Zachary Justin Jacokes | The Effect of Temperature on the Strength of a Magnet | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 767 | Taylor-Jay Michelle Kost | Is Our Water Safe | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 768 | Kathryn Ann Pollard | Salt, Seed, and Soil | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 769 | Heather Celeste Butler | The Natural Ways of Water | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 770 | Aria Andrea Aaron | Light and Water: Do Plants Need Both? | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 771 | Jinny Lee Moore | Fossils of Middle Tennessee | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 772 | Kelsey Ann Taylor | Which Way is the Right Way? | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 773 | Caroline Britton King | Toilet Paper Tolerance | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 774 | Vidisha Singh | Which is the Most Scientifically Sour? | Martin Luther King, Jr. Magnet | Paul Elton Bass |

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|------------------|-----------------------------|--|--------------------------------|--------------------|
| 775 | Laralee Noel Huguley | Water or Not? | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 776 | Dylan Marley Clark | To Fizz or Not to Fizz | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 777 | Hollie Danielle Black | What Part of a Seed Causes Phototropism | Martin Luther King, Jr. Magnet | Paul Elton Bass |
| 8th Grade | | | | |
| 801 | Alan Rene Hodge | Buoyancy | Rossvie Middle School | Mary Hodge |
| 802 | Eric Scott Papadinec | Friction: It's Slowing Me Down | Kenwood Middle School | Katherine M. Maize |
| 803 | Lauren E Tyler | 99.9% Germ Killers | Martin Luther King, Jr. Magnet | Dawn A. Hofwolt |
| 804 | Lyndsey Jane Moulds | Life in Color | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 805 | Claudia Valenzuela | Effect of Folate Deficiency on Red Blood Sickling | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 806 | Richard George Murray | Technicolor Plants | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 807 | Anna Elizabeth Pitz | Will the pGlo Glow? | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 808 | Steven Ross Olson | Show Me the Money! The Effect of the pH Number of Cleaning Solutions to Their Efficiency and Cost Efficiency | Martin Luther King, Jr. Magnet | Pam Olson |
| 809 | Dallas Ryan Simons | The Strain of Acid Rain | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 810 | Michael Franklin Neblett II | Which Types of Fabric are the Most Flammable? | McEwen Junior High School | Constance Brown |
| 811 | Taylor Patrick Wallace | Battery Life | McEwen Junior High School | Constance Brown |
| 812 | Joshua Wade Hooper | Electrical Disintegration | McEwen Junior High School | Cheryl Long |
| 813 | Will F. Myers | Do You Get Cold at Night? | Rossvie Middle School | Peggy Bashore |
| 814 | Evan Chaudhuri | The Effect of a High Protein Diet Against a High Carbohydrate Diet on Which is Best | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 815 | Daniel Joseph Garcia | Hot Diggety Birdhouses | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 816 | Chuck Edlin | The Effects of Liquid on Plants | New Providence Middle School | Sherry Hersh |
| 817 | Rachel Anne Pope | Ice Breakers | New Providence Middle School | Hillary Sullivan |

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|------------|-----------------------------|--|----------------------------------|----------------|
| 818 | Erik Joseph Schiller | The Effect of pH on Amylase Activity | Montgomery Central Middle School | Molly Shaw |
| 819 | Elizabeth Leanne Harris | Bending Light | Montgomery Central Middle School | Molly Shaw |
| 820 | Morgan Elizabeth Hill | All Shook Up | Montgomery Central Middle School | Molly Shaw |
| 821 | Aileen Patimeteeporn | Nut Energy | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 822 | Andrea Brooke Ivy | Fluxuality | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 823 | Haley Nicole Combs | Will a Softball's Temperature Affect Its Elasticity? | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 824 | Tiao Guan | Diabetic Mice | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 825 | Oliver Han | Is Antibacterial Soap the Better Choice? | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 826 | Alexander Bradford Martin | A Computerized Analysis of Glutamate and Glutamine through NMR | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 827 | Missy Nadine LaVone | Gone Fishin! (for Invertebrates, That Is) | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 828 | Christie Jean Kang | Got Heat? | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 829 | Matt Ryan Thompson | When the Walls Come Crashing Down | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 830 | Kaylon Rose Warren | The Moldy Truth | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 831 | Sara Samantha Delheimer | Memory Overload | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 832 | Rebekah M Roberts | Ferocious Flowers | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 833 | Jennifer Elaine Todd | Methane Production by Anaerobic Digestion | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 834 | Vishan Taiprakash Ramcharan | An Open and Shut Case (or Building a Robot Arm) | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 835 | Daniel Spainhour | The Effect of Tire Pressure and Surface on the Fuel Economy of a Vehicle | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 836 | Danika Fay Wellington | Life on Mars? | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 837 | Sarah Elizabeth Bapty | Sound Origins | Martin Luther King, Jr. Magnet | Dawn Hofwolt |
| 838 | Danika Brooke Schlosser | The Layered Look | Martin Luther King, Jr. Magnet | Harold Finch |

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|------------|--------------------------|--|--------------------------------|----------------|
| 839 | Leah Noel Brady | Turn Up the Heat | Martin Luther King, Jr. Magnet | Harold Finch |
| 840 | Nathan Shimor Pankowsky | Making a Better Hoverboard | Martin Luther King, Jr. Magnet | Harold Finch |
| 841 | Warren T. Stump | Battery Showdown | Martin Luther King, Jr. Magnet | Harold Finch |
| 842 | Chris Eugene Gallimore | How to Build a Hovercraft | Martin Luther King, Jr. Magnet | Harold Finch |
| 843 | Matthew Joseph Hern | Circuit Board Functions | Martin Luther King, Jr. Magnet | Harold Finch |
| 844 | Chris L. Battle | No Stains Here! | Martin Luther King, Jr. Magnet | Harold Finch |
| 845 | Arthur Joseph Leago | Leapin' Lizards | Martin Luther King, Jr. Magnet | Harold Finch |
| 846 | Tamanna Huda | Where'd the Water Go? | Martin Luther King, Jr. Magnet | Harold Finch |
| 847 | Hadil Senno | Stain Out! | Martin Luther King, Jr. Magnet | Harold Finch |
| 848 | Stephania Reategui Byrne | Do Materials Matter When a Suspension Bridge is Under Pressure? | Martin Luther King, Jr. Magnet | Harold Finch |
| 849 | Jessica Ch'ng | The Effect of the Size of a Vent Hole in a Parachute on the Amount of Time the Parachute Takes to Land | Martin Luther King, Jr. Magnet | Harold Finch |

Behavioral and Social Sciences

| | | | | |
|------|---------------------------|---|-----------------------|----------------|
| 1001 | Laura Michelle Golobish | The Effects of Smell on Short-Term Memory | Northwest High School | Brenda Douglas |
| 1002 | Jessica Mone Crumrine | Music on the Mind | Northwest High School | Brenda Douglas |
| 1004 | Andrea Janet Lynch | The Effects of Violent Video Games on Heart Rate and Blood Pressure | Northwest High School | Brenda Douglas |
| 1005 | Brittney Nicole Haller | Affect of Color on Memorization | Northwest High School | Brenda Douglas |
| 1006 | Katrina Natalie Browning | How Time Passes | Northwest High School | Brenda Douglas |
| 1007 | Sharea Monique Brown | A-mazing Smells | Northwest High School | Brenda Douglas |
| 1008 | Melissa Alice Merkle | Short Term Memory: Auditory vs. Visual | Northwest High School | Brenda Douglas |
| 1009 | Ashley Elizabeth Randolph | Effects of Music on Heart Rate and Blood Pressure | Northwest High School | Brenda Douglas |
| 1010 | Benjamin Matthew Baggett | The Effect of Video Games on Reaction Time | Rossvie High School | Ben Dager |

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|------------|---------------------------------|--|-----------------------|----------------|
| 1011 | Nate David Jones | Teenage Social Status and Music Preference | Rossvie High School | Ben Dager |
| 1020 | Calvin Schiller | The Musical Beat of Your Heart | Rossvie High School | Ben Dager |
| 1012 | Jarrett Bryan Rawlings | Hearsay | Northwest High School | Lena Brown |
| 1013 | Samantha Kate Yonts | Animal Influences | Northwest High School | Katie Saxon |
| 1014 | Ashley Rose Fleahman | The Effects of Music on the Human Mind | Northwest High School | Katie Saxon |
| 1015 | Lisa Nancy Telford | Do Odors Effect a Person's Mood? | Northwest High School | Pam Cooper |
| 1016 | Tara Elizabeth Radtke | The Effect of Different Songs on Typing Speed and Accuracy | Northwest High School | Pam Cooper |
| 1021 | Jessica Daniele Gagliardo | Chicken Say More Than "Cluck Cluck" | Northwest High School | Lena Brown |
| 1017 | Joseph Allen Kennedy | Hand Dominance and the Probability of Directional Viewing | Northeast High School | Brenda Gray |
| 1018 | Marsel Maurice Gray | Positive and Negative Reinforcement | Northeast High School | Brenda Gray |
| 1019 | Sheena La Toya, Marie Balthazar | How are You Feeling? | Northeast High School | Brenda Gray |

Biochemistry

| | | | | |
|------|-----------------------|---|-------------------------------------|--------------|
| 2001 | Rohan Kochikar Pai | Evidence for Two SPAK Isoforms Due to Alternative Translation Start Sites or Alternative Splicing | Hume Fogg Academic High School | Brenda Royal |
| 2002 | Bittu Raj Majmudar | Identification of Targets of Id Proteins in the Lung | Martin Luther King, Jr. Magnet High | John M. Lee |
| 2003 | Thomas Gregory Parker | Break It Down | Rossvie High School | Ben Dager |
| 2004 | Jessica J. Keel | The Characterization of a Fruit Fly Mutant with Abnormal Cell Cycles | Martin Luther King, Jr. Magnet High | Kathy Lee |

Botany

| | | | | |
|------|----------------------------|--|--------------------------------|---------------------|
| 3001 | Rachael Elizabeth Charlton | The Grass is Always Greener... | Blackman High School | Sally Millsap |
| 3002 | Sheena Danielle Henry | The Effect of Electromagnetic Fields on Eremosphaera Algae Cells | Blackman High School | Sally Millsap |
| 3003 | Kimberly Christine Tolley | Comparing Transpiration Rates | Blackman High School | Sally Millsap |
| 3004 | Holly Ann Groves | Picky Plants | Montgomery Central High School | Teresa Jean Celusta |
| 3005 | Sierra Elaine Rodgers | Rock for Plants | Northwest High School | Lena Brown |

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|------------|--------------------------|---|--------------------------|-----------------|
| 3006 | Katelin Keller Harris | The Effect of Location and Temperature on Plant Phenology | Giles County High School | Tyrone Ingram |
| 3004 | Nicholas Eugene Lorenson | Hydroponics: Worth Our Time? | Northwest High School | Brenda Douglas |
| 3008 | Sabra Marla Williams | How Does Acid Rain Affect English Ivy Plants | Northwest High School | Brenda Douglas |
| 3009 | Jasmine Yvette Bradford | Does Music Have an Affect on Plant Growth | Northwest High School | Brenda Douglas |
| 3010 | Jonathan Paul Smith | Nitrogen and Grass Growth | Rossvie High School | Ben Dager |
| 3011 | Reese-Anna Jean Baker | Effects of Pine Needle Additive on Corn Growth | Rossvie High School | Ben Dager |
| 3012 | Daeyun Choe | A Plant's Will to Escape the Maze | Northwest High School | Lena Brown |
| 3013 | Alicia Carol Sundby | Surviving the Phosphates | Northwest High School | Lena Brown |
| 3014 | Fatima McElveen | Flowers Smell Like Fresh Peaches | Northwest High School | Lena Brown |
| 3015 | Philip Mesa Baylon | Does Colored Light Affect Plant Growth? | Northwest High School | Katie Saxon |
| 3016 | Michael Anthony Majors | Pea Plant Experiment | Northwest High School | Katie Saxon |
| 3017 | Reuben Jarvis Mabry | Plants' Resilience to Contaminates in Their Soil | Northwest High School | Katie Saxon |
| 3018 | Rebecca Allison Elrod | Do Water Impurities Stimulate Plant Growth? | Northwest High School | Katie Saxon |
| 3019 | Jessica Eileen Monfries | The Effect of Substances on Seed Germination | Northwest High School | Pam Cooper |
| 3020 | Millie Anne Hutchison | Deteriming the Effects of Different Fertilizers on Plant Growth | Northwest High School | Pam Cooper |
| 3021 | Eric K LaBarre | What is the Effect of Music on Croton Plants? | Northwest High School | Pam Cooper |
| 3022 | William Calain Schuman | The Effects of Class 2 Laster Light on Skin Cell Tissue | McEwen High School | Constance Brown |
| 3023 | Shawn Thomas Hutchison | Plant Pigment and Chromatography | McEwen High School | Constance Brown |
| 3024 | Brandon M. McElroy | Asprin's Effect on Plant Growth | Northeast High School | Brenda Gray |

Chemistry

| | | | | |
|------|-----------------------|---|----------------------|-----------------|
| 4001 | Kathryn Paige Edwards | Crystal Creations | Blackman High School | Sally Millsap |
| 4002 | Amy Marie Coffey | Synthesis & Analysis of Metal-Chloride-Silicon Ethoxide Sol-Gel Materials | Smyrna High School | Craig T. Tilton |

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|------------|---------------------------|--|-----------------------|-----------------|
| 4003 | Samantha Irene Cunningham | Exhaust on the Rocks | Rossview High School | Ben Dager |
| 4010 | Tara Daniel | Analysis of Ascorbic Acid Concentration via Titration | Rossview High School | Ben Dager |
| 4009 | Scott Cochran | Stressful Reactions | Rossview High School | Ben Dager |
| 4004 | Trevarius Lee Newnan | Gaseous Comparisons | Northwest High School | Lena Brown |
| 4005 | Julius G. Bratton | Cohesion in Water Solutions | Northwest High School | Lena Brown |
| 4006 | Valencia Jene Bratton | The Hero's Fountain and the Effect Soap Has on the Process | Northwest High School | Pam Cooper |
| 4007 | Bradley Jason Wheeler | Electrolysis | McEwen High School | Constance Brown |
| 4008 | Beka Lyn Swearns | Food Separation by Column Chromatography | McEwen High School | Constance Brown |

Computer Science

| | | | | |
|------|---------------------|----------------------------|-------------------------------------|---------------|
| 5001 | Robert Paul Burnham | Chemical Thermal Reduction | Blackman High School | Sally Millsap |
| 5002 | Evan Broder | SciFair SMS | Martin Luther King, Jr. Magnet High | Kathy Lee |

Earth and Space Sciences

| | | | | |
|------|----------------------------|---------------------|--------------------------------|---------------------|
| 6001 | Danielle Elizabeth Wilkins | Depth vs. Magnitude | Montgomery Central High School | Teresa Jean Celusta |
| 6002 | Ashlee Nicole Foltz | Crystal Formations | Northeast High School | Brenda Gray |

Engineering

| | | | | |
|------|--------------------------|--|--------------------------------|---------------------|
| 7001 | Jasmine Renee White | Homemade vs. Store Bought | Blackman High School | Sally Millsap |
| 7002 | Eric Harry Weber | Folding for the Distance | Blackman High School | Sally Millsap |
| 7003 | Benton Read Jackson | Buckling Bridges | Montgomery Central High School | Teresa Jean Celusta |
| 7004 | John M. Gannon | To Build a Bridge | Rossview High School | Ben Dager |
| 7005 | Heather Louise Smith | Robot on the Run | Northwest High School | Katie Saxon |
| 7006 | William Nicholas McManus | A Comparative Study of the Insulative Properties of Fiberglass Batting, Polystyrene Board, and Reflective Insulation | Northwest High School | Pam Cooper |
| 7007 | James David Fisher | Can Solar Heat Cook a Hot Dog? | McEwen Junior High School | Constance Brown |

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|------------|---------------------|----------------------------|--------------------|-----------------|
| 7008 | Stephen Joseph Luco | A Low Cost Household Robot | McEwen High School | Constance Brown |

Environmental Sciences

| | | | | |
|------|--------------------------|---|-----------------------|-----------------|
| 8001 | Elizabeth Ashley Cothren | Acid Rain: It's Eating Me Up | Northwest High School | Lena Brown |
| 8002 | Bethany Rose Cartwright | CO2 Concentration and Photosynthesis | Rossvie High School | Ben Dager |
| 8003 | Nour Ahmad Joudah | Fighting Fires | Rossvie High School | Ben Dager |
| 8004 | Carl Ray Jenkins, III | Safe to Eat? | Rossvie High School | Ben Dager |
| 8005 | Kristian Nicole Gingrich | Pond Water: Inhabited vs. Uninhabited | Northwest High School | Lena Brown |
| 8006 | Whitney Christine Barnes | Is Your Water Safe to Drink? | Northwest High School | Lena Brown |
| 8007 | Mark Patrick Chinetti | Determining the Dissolved Oxygen Level Throughout the Day | Northwest High School | Pam Cooper |
| 8008 | Miranda Dawn Saturday | The Effect of Ground Level on Levels of Dissolved Oxygen | Northwest High School | Pam Cooper |
| 8009 | Dustin Ray Palk | The Effects of Acidic Pollution | McEwen High School | Constance Brown |
| 8010 | Jeremy Gilliam Bradley | Acid Rain | McEwen High School | Constance Brown |
| 8011 | Jessica Elaine Gill | Water Quality of Blue Creek | McEwen High School | Constance Brown |
| 8012 | Jessica Marie Hauf | Testing the Waters for Tennesseans | Northeast High School | Brenda Gray |
| 8013 | Vanessa Huntley | How Acidic Can You Get? | Northwest High School | Huntley Elsa |

Mathematics

| | | | | |
|------|---------------------|--|----------------------|---------------|
| 9001 | Courtney Hazel Ginn | Calendars: Past, Present, Future | Blackman High School | Sally Millsap |
| 9002 | adam David Lander | The First Digit Phenomenom - Benford's Law | Rossvie High School | Ben Dager |

Medicine and Health

| | | | | |
|-------|-------------------------|--|-------------------------------------|-----------------|
| 10001 | Edleda Maria Crawford | Alternative Vehicles for Gene Therapy of Sickle Cell Anemia | Martin Luther King, Jr. Magnet High | John Lee |
| 10002 | Aubree L. Johnson | Analysis of Apoptosis in Stromal Cells During Decidualization via the Overexpression of Cyclin D3. | Martin Luther King, Jr. Magnet High | John Lee |
| 10003 | Rebekah Elizabeth Scott | The Mechanical Simulation of Heart Valves During Asystole | Creekwood High School | Philip Chadwick |

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|---------------------|----------------------------|---|-------------------------------------|-----------------|
| 10004 | Natasha Nicole Williams | Identification of Genes Involved in Anchorage-Independent Growth | Martin Luther King, Jr. Magnet High | John Lee |
| 10005 | Kyle Justin Grice | The Effects of Shower Water Temperature on Blood Pressure and Pulse | Northwest High School | Pam Cooper |
| Microbiology | | | | |
| 11001 | Elizabeth Nicole Martin | Is It Clean? | Northwest High School | Lena Brown |
| 11002 | Allison Elizabeth Pichert | The Role of Junctional Adhesion Molecule in Reovirus-Induced Apoptosis | Martin Luther King, Jr. Magnet High | John Lee |
| 11003 | Nancy N Pham | Analysis of p53 Gene Expression in Mouse Uterine Decidualization | Martin Luther King, Jr. Magnet High | John Lee |
| 11004 | James William Henry Howard | The Effects of Streptomycin on the Growth of E. coli | Northwest High School | Brenda Douglas |
| 11005 | Candice Yuri Moreland | How Do pH Levels Affect Bacterial Growth? | Northwest High School | Brenda Douglas |
| 11006 | William B. Newell | Antimicrobial Resistance of E. coli on Streptomycin and Erythromycin | Northwest High School | Katie Saxon |
| 11007 | Samantha Cheryl Saxon | The Transformation of E. coli with pBLU at Varying Temperatures | Northwest High School | Pam Cooper |
| 11008 | LeeAnne Courtney Wortham | The Effect of a Basic Solution on Planarian Regeneration | Northwest High School | Pam Cooper |
| Physics | | | | |
| 12001 | Qi Qiao Lu | Correlating Fourier Transform to Quantum Optics | Blackman High School | Sally Millsap |
| 12002 | Stephen Greyson Daugherty | Air Resistance Calculations for Spherical Bodies | Rossvie High School | Ben Dager |
| 12003 | Michael Lee Tanner | The Interaction of Light and Matter | Northwest High School | Katie Saxon |
| 12004 | Angela Renee Bielefeld | What Determines the Period of Motion of a Pendulum? | Northwest High School | Lena Brown |
| 12005 | Heather Marie Lombardo | What Liquids Hold Heat for the Longest Time? | Northwest High School | Pam Cooper |
| 12006 | Terza Denise Westin | Applying Bernoulli's Principle to Airfoils | Northwest High School | Pam Cooper |
| 12007 | LaRae Christine Wortham | Determining the Sound Insulating Capabilities of Styrofoam, Plywood, Insulation, Plexi-glass and Ceiling Tile | Northwest High School | Pam Cooper |
| 12008 | Nathan B. Parrish | Radiation Makes a House Call | McEwen High School | Constance Brown |
| 12009 | Philip Andrew Gray | Heat of Fusion for Ice | Northeast High School | Brenda Gray |

| <u>No.</u> | <u>Exhibitor</u> | <u>Title of Exhibit</u> | <u>School</u> | <u>Teacher</u> |
|----------------|-----------------------|---|-------------------------------------|---------------------|
| Zoology | | | | |
| 13001 | Megan Michelle Knight | Where Do Worms Wanna Wiggle? | Montgomery Central High School | Teresa Jean Celusta |
| 13002 | Jenny Annette Davis | To Hatch or Not to Hatch | Montgomery Central High School | Teresa Jean Celusta |
| 13003 | Nadeze Corpuz Alvarez | The Role of α -Endosulfine in Insulin Secretion | Martin Luther King, Jr. Magnet High | John Lee |
| 13004 | Monica Elmore | The Effects of Sodium Chloride on <i>Ceriodaphnia Dubia</i> 's Mortality and Reproduction | Northwest High School | Brenda Douglas |
| 13005 | Benjamin Albert Bills | Worms World | Northwest High School | Katie Saxon |