

<u>No.</u>	<u>Exhibitor</u>	<u>Title of Exhibit</u>	<u>School</u>	<u>Teacher</u>
<b>6th Grade</b>				
601	Colt James Michael Holliman	The Effects of Different Core Materials on the Magnetic Field Strength of an Air-Core Solenoid	Greenbrier Middle School	Ronnie Lee Nixon
602	Rebecca Victoria Blackwell	Fizz, Bubble, Pop	Kenwood Middle School	Karen Harter
603	Torey Bowman	Red Cabbage pH Indicator	Kenwood Middle School	Karen Harter
604	Ryan R. Rannie	Which Paper Towel Is The Strongest?	Kenwood Middle School	Karen Harter
605	Brianna Joy Bartelt	How Well Do Trees Increase the Amount of O <sub>2</sub> in the Atmosphere?	Meigs Magnet School	Jamie Schimenti
606	Owen Wallace LeGrove	Types of Pipe: Which is the Best Choice	Meigs Magnet School	Jamie Schimenti
607	Jake Andrew McCoy	How are fingerprints influenced by genetics, if at all?	Meigs Magnet School	Jamie Schimenti
608	Nathan Andrew Wellington	Stretching to the Limit	Rose Park Magnet School	Kesita Brown
609	Jenna K. Davis	Mixing Spectra: When Red Meets Blue	The Webb School	Jacqueline Boyanton

### 7th Grade

701	Eric Thomas Fagan	Insulators: Warm vs. Cold	Kenwood Middle School	Gayle Hartley
702	Lauren Ashley Brewer	The Fat Factor	Martin Luther King, Jr. Magnet	Kathy Lee
703	Shanese Marcene Brown	Bubbles: Which Solution can Outstretch, Outlast, and Outplay	Martin Luther King, Jr. Magnet	Kathy Lee
704	Quanique L. Coffman	The Mirror's Time to Shine	Martin Luther King, Jr. Magnet	Kathy Lee
705	Dalu C. Ejiofor	Size Matters	Martin Luther King, Jr. Magnet	Kathy Lee
706	Nora Wynne Fischer	Smash Bang Spark	Martin Luther King, Jr. Magnet	Kathy Lee
707	Brianna Justine Gould	Hamm It Up!	Martin Luther King, Jr. Magnet	Kathy Lee
708	Hunter Gregory	Posture Makes Perfect	Martin Luther King, Jr. Magnet	Kathy Lee
709	Busra Gungor	Shake That Quake	Martin Luther King, Jr. Magnet	Kathy Lee
710	Lillian J Hazen	Avian Cuisine	Martin Luther King, Jr. Magnet	Kathy Lee

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711	Mitchell Tyler Henderson	Crazy Color Change	Martin Luther King, Jr. Magnet	Kathy Lee
712	Holley Tatiana Johnson	Do You See What I See?	Martin Luther King, Jr. Magnet	Kathy Lee
713	Sarah A. Knobloch	Oxidation	Martin Luther King, Jr. Magnet	Kathy Lee
714	Jeewar M. Kokoy	Centrifuges and The Loop-The Loop	Martin Luther King, Jr. Magnet	Kathy Lee
716	Richard Edward McNeeley	Angles Bite!	Martin Luther King, Jr. Magnet	Kathy Lee
717	Rohan Nag	Speed It Up	Martin Luther King, Jr. Magnet	Kathy Lee
718	Mekhia Posey	Sticky Cells	Martin Luther King, Jr. Magnet	Kathy Lee
719	Charisse Danielle Prentice	A Gaseous Situation	Martin Luther King, Jr. Magnet	Kathy Lee
720	Julian Victor Raschke	Not So Supertasters	Martin Luther King, Jr. Magnet	Kathy Lee
721	Kara Bethany Reed	Suck It Up!	Martin Luther King, Jr. Magnet	Kathy Lee
722	Jeremy Rogar Sanders	Lights, Camera, Action!?	Martin Luther King, Jr. Magnet	Kathy Lee
723	Navila Fahmida Sharif	What is the Effect of Different Types of Salt on the Melting of Ice?	Martin Luther King, Jr. Magnet	Paul Bass
724	Kerry Anne Sommers	Speedy Spins	Martin Luther King, Jr. Magnet	Kathy Lee
725	Allen Cooper Sudbrink	A Comparison of Soil Arthropods Under different Vegetation Management	Martin Luther King, Jr. Magnet	Paul Elton Bass
727	Grace Elizabeth Vorhees	Ping Pong Pings	Martin Luther King, Jr. Magnet	Kathy Lee
728	Jenny Jie Zheng	Electric Tango	Martin Luther King, Jr. Magnet	Kathy Lee
729	Maximilian H. Carter	The Effect of Neuronal Swelling on Synapse Formation	West End Middle School	Clifford Cockerham

### 8th Grade

801	Hill Stratton Kinney	The Influence of a Golf Ball's Bounce to the Distance It Travels	Clarksville Academy	Katie Saxon
802	Christian Francis Sanford	The Amount of Force a Toothpick Can Withstand	Clarksville Academy	Katie Saxon
803	Kathryn Haley Spigner	Which Household Fabric Burns The Fastest?	Clarksville Academy	Katie Saxon
804	Kymsasha Rashawn Harris	Straight is the Path. . . How Does Light Travel?	Dupont Hadley Middle	Dana Jones
805	Gavin Brent Nixon	Triboluminescence: The Wintergreen Life-Savers Effect	Greenbrier Middle School	Ronnie Lee Nixon

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806	Merna Wasif	Which Painkiller Takes the Least Amount of Time to Work?	Head Magnet School	Olfat Nashed
807	Alexis Renee Johnson	Freshest Fruit	Kenwood Middle School	Jennifer Bierman
808	Chris Todd Calhan	As Fast As Light	Martin Luther King, Jr. Magnet	Dawn Donovan
809	Susanna Chi	"Leaf" Those Colors Alone!	Martin Luther King, Jr. Magnet	Christopher Wright
810	Garrett Lee Christians	Little Harpeth Health	Martin Luther King, Jr. Magnet	Dawn Donovan
811	James M. Clute	Cool Sucker! The Self Cooling Straw	Martin Luther King, Jr. Magnet	Chris Wright
812	Jeremiah Timothy Cooper	Salty Water	Martin Luther King, Jr. Magnet	Monique Dunlap
813	Jiahe Gu	Under Pressure	Martin Luther King, Jr. Magnet	Dawn Donovan
814	Harrison P. Hilt	Rubber Bands: Frozen or Exhausted?	Martin Luther King, Jr. Magnet	Dawn Donovan
815	Emily Hamrick Kleinfelter	The Water We Drink	Martin Luther King, Jr. Magnet	Dawn Donovan
816	Lauren C. Lu	No More Wear And Tear	Martin Luther King, Jr. Magnet	Dawn Donovan
817	Zaysha D. Montgomery	It's Electric	Martin Luther King, Jr. Magnet	Christopher Wright
818	Rachel Anne Oppenheimer	Slip n' Slide	Martin Luther King, Jr. Magnet	Dawn Donovan
819	Preston Hugo Palm	Elliptical Cylinders	Martin Luther King, Jr. Magnet	Jennifer Jarrell
820	Mihir Sudhir Patel	Can You Shoot A Bull's Eye Under Water	Martin Luther King, Jr. Magnet	Dawn Donovan
821	Alma Jhamia Poole	Laser Tag	Martin Luther King, Jr. Magnet	Dawn Donovan
822	Alexa Mary Romersa	Bend Trend	Martin Luther King, Jr. Magnet	Monique Dunlap
823	Shanna Marie Rucker	Water Water Everywhere	Martin Luther King, Jr. Magnet	Dawn Donovan
824	Emily Anne Stump	How High Can You Bounce?	Martin Luther King, Jr. Magnet	Dawn Donovan
826	Connie H. Zhu	The Effect of pH Level on Yeast Growth	Martin Luther King, Jr. Magnet	Jennifer Jarrell
827	Jyotishka Biswas	Role of Organ-Specific Fibroblast (or Osteoblasts) on Metastatic Behavior of Breast Cancer Cells	Meigs Magnet School	Jamie Schimenti
828	Vikas S Kumar	Effect of CO2 on Growth of Algae	Meigs Magnet School	Jamie Schimenti

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<b>Biochemistry</b>				
2001	Timothy Bryan White	What Are The Most Efficient Amounts of Chlorine and Hydrogen Peroxide to Kill Zebra Mollusk Veliger and Dissipate Both Chemicals	Creekwood High School	Terrill Johnson
2002	Brent Alexander Gass	A Method for Determining the Rate of Starch Digestion by Diastase Utilizing the Iodine/Iodide Clock Reaction	Greenbrier High School	Ronnie Lee Nixon
2003	Rae Ellen V. Bichell	Analysis of CaMKII Signalling Complexes in Mouse and Rat Striatum Hippocampus	Harpeth Hall School	Lisa Keen
2004	Charlie Liu Xie	An Assay to Elucidate the Mechanisms of Amphetamine in the Dopaminergic Pathway	Martin Luther King, Jr. Magnet	Chand Desai
2005	Caitlyn Elizabeth Pennington	Investigation of Biochemical Energy	Northwest High School	Constance Brown
<b>Botany</b>				
3001	Haley Elizabeth Bourne	Organic Versus Inorganic Fertilizers	Clarksville Academy	Katie Saxon
3002	Anthony Evans	Bananas Life Source of Plants	Clarksville Academy	Katie Saxon
3003	Amy Kirsten Hall	Epsom Salt and Plant Growth	Clarksville Academy	Katie Saxon
3004	Josh Levi Jerles	How Earthworms Affect Plant Growth	Clarksville Academy	Katie Saxon
3005	Anthony Quinn Johnson	Native Plants	Clarksville Academy	Katie Saxon
3006	Emily Anne Koehler	The Effects of Acid Rain of Different pH Levels on Pine Trees	Clarksville Academy	Katie Saxon
3007	Catherine Rachael Massey	How Salt Affects the Growth of Plants	Clarksville Academy	Katie Saxon
3008	Whitney Dianne Orgain	Do Vitamins Help Plants Grow?	Clarksville Academy	Katie Saxon
3009	Emily Elizabeth Parrish	Can You Grow Two Irises in One?	Clarksville Academy	Katie Saxon
3010	McKinley Kate Perry	Chemical vs Organic Fertilizer	Clarksville Academy	Katie Saxon
3011	Martin Issac Smith	Does Magnetism Affect Plant Growth	Clarksville Academy	Katie Saxon
3012	Sarah Burton Wallace	How Aging Can Affect the Germination of Seeds	Clarksville Academy	Katie Saxon
3013	Robert Wayne McCormick	The Effects of Nitrate on the Uptake and Retention of Water by Three Different Species of Grasses Used as Forage Crops	Greenbrier High School	Ronnie Lee Nixon
3014	April Octavia Hanna	Will The Plants Still Grow?	Northeast High School	Brenda Gray
3015	Michael David Hill	The Effect of Light on Evapotranspiration	Northeast High School	Brenda Gray
3016	Ashlee Blanka Mitchell	Too Much Salt	Northeast High School	Brenda Gray

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3017	Megan Rene Nash	Water and Its Effect on Plants	Northeast High School	Brenda Gray
3018	Kevin Battiese White	The Plant-Acid Connection	Northeast High School	Brenda Gray
3019	Bryan Alexander Dahlke	Soil pH and the Growth of Plants	Northwest High School	Constance Brown
3020	Katlyn Renee Dallas	The Affect of Salt and Sucrose on Bean Plants	Northwest High School	Constance Brown
3021	Alex James Eskelsen	Plant Conductivity	Northwest High School	Constance Brown
3022	Donald John Higdon	Polystyrene Foam Effects on Soil Aeration	Northwest High School	Constance Brown
3023	Tabitha Danielle Johnson	Watering Plants With Three Different Beverages	Northwest High School	Constance Brown
3024	Jenna Renee Johnson	Plants Under Chemical Influence	Northwest High School	Constance Brown
3025	Jessica Minnie Rongholt	The Influence of Light on Plants	Northwest High School	Constance Brown

### **Chemistry**

4001	Brandon Clay Bellamy	Does The Shape of Ice Affect The Melting Rate	Clarksville Academy	Katie Saxon
4002	Heidi Adelene Bevans	Effect of Temperature on Acids	Clarksville Academy	Katie Saxon
4003	Ryan Ross Carroll	Electrolysis of Water	Clarksville Academy	Katie Saxon
4004	Andrew Patrick Doerner	Charged For Rehydration	Clarksville Academy	Katie Saxon
4005	Anna Kathryn Elrod	Heat and Metal Expansion Rates	Clarksville Academy	Katie Saxon
4006	Cambria Faye Miller	Perpetual Ink?	Clarksville Academy	Katie Saxon
4007	Malcolm Isaiah Smith	The Effect of Soft Drinks on The Dissolving of Ice	Clarksville Academy	Katie Saxon
4008	Bradley Keeter Taylor	Salt Water Conductivity	Clarksville Academy	Katie Saxon
4009	Jessica Jolene White	Smoke Points of Various Cooking Oils	Clarksville Academy	Katie Saxon
4010	Jessica O'Neal Kolb	A Novel Technique for the Simultaneous Electrolytic Deposition of Metals from Aqueous Solution	Greenbrier High School	Ronnie Lee Nixon
4011	Celeste Aeriell Johnson	Analyzing Aluminum and Its Properties	Northwest High School	Constance Brown
4012	MiRee Kim Kang	Average Sugar Content in Various Bubble Gum Brands	Northwest High School	Constance Brown
4013	Rachel Marie Knopf	Chemistry in Cosmetics	Northwest High School	Constance Brown
4014	Amanda Leigh Lehman	Permanent Marker Removal and Relation to Formulas	Northwest High School	Constance Brown

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4015	Rebecca Mirah O'Quinn	Heat Radiation and Color	Northwest High School	Constance Brown
4016	Rachael Briana Perrault	Calories Per Gram In Lipids, Carbohydrates, and Proteins	Northwest High School	Constance Brown
4017	Meagan Renee Sellick	Testing Water For Contaminates	Northwest High School	Constance Brown
4018	Shieltiel B. Stephens	Finding The Ka of A Weak Acid	Northwest High School	Constance Brown
4019	Terry Evan Thompson	Effectiveness of Charge on Color Intensity	Northwest High School	Constance Brown
4020	Mary Rachel Toler-Mcmullen	Total Acidity of Citric Juice	Northwest High School	Constance Brown

### **Engineering**

7001	Alyssa Kate Halbe	A Comparison of The Strength of Geodesic Domes and Cubes	Clarksville Academy	Katie Saxon
7002	Walter Garnett Ladd	Alternate Energy Source, Water and The Sun	Clarksville Academy	Katie Saxon
7003	Michael Wilson Sanford	Perpetual Motion Via Magnetism	Clarksville Academy	Katie Saxon
7004	Kevin Smith	Magneto hydrodynamics Energy For Tomorrow	Clarksville Academy	Katie Saxon
7005	Chris James King	Electromagnetic Levitation: A Digital Control System	Creekwood High School	Terrill Johnson
7006	Ethan Cannon Green	A Simple Capacitor for Determing Dielectric Constants for Pure and Combination Materials	Greenbrier High School	Ronnie Lee Nixon
7007	Michael A. Micieli	Will Changes in Pressure Affect a Water Rocket's Performance?	Northwest High School	Constance Brown
7008	Thomas Lance Owen	Zinc Air Fuel Cell Power Output With Varying Particle Size	Northwest High School	Constance Brown
7009	Franklin Ralph Peterson III	Turbine Use And The Generation of Electricity	Northwest High School	Constance Brown
7010	Leo Vernon Saturday	Efficiency Comparison Between Hydrogen and Nitromethane Fuel	Northwest High School	Constance Brown

### **Environmental Sciences**

8001	Rachel L Bevans	The Health of A Pond Over Time	Clarksville Academy	Katie Saxon
8002	Courtney Lauren Clark	Using Minnows to Monitor Water Toxicity	Clarksville Academy	Katie Saxon
8003	Robert Winn Ellis	Which River Is Cleaner? The Cumberland or The Red River	Clarksville Academy	Katie Saxon
8004	Hunter Phillip Wood	How to Kill My Unknown Grass	Clarksville Academy	Katie Saxon
8005	Gregory S. Markov	Utilization of Microalgae in Batch Cultures and Photobioreactor	Franklin High School	Sergei Markov

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8006	Najieva S. Ibrahim	Purification of Water by a Combination Treatment with Silver Metal and UV Irradiation	Greenbrier High School	Ronnie Lee Nixon
8007	Brianca E. Williams	The Electric Factor	Northeast High School	Brenda Gray
8008	Paige Elizabeth Caldwell	The Effect of Plant Cover on Soil Erosion	Northwest High School	Constance Brown
8009	Joshua Russel Hague	Thermal Conductivity Amongst Metals	Northwest High School	Constance Brown
8010	Nicola Elizabeth Tippy	The Effects of Nitrites on Dissolved Oxygen Levels	Northwest High School	Constance Brown
8011	Lindsey Theresa Wilkins	Testing for the Hardness of Water	Northwest High School	Constance Brown

### **Mathematics and Computer Science**

9001	Matthew Douglas Baggett	Oil Cooled PC	Clarksville Academy	Katie Saxon
9002	Lydia Carolyn Butts	Do Fast Food Restaurants Cluster Around Schools	Clarksville Academy	Katie Saxon
9003	Dylan Michael Chalker	Probability of Guessing on A Multiple Choice Test and Passing	Clarksville Academy	Katie Saxon
9004	Devin Bradley Hightower	Difference In Calculator Accuracy	Clarksville Academy	Katie Saxon
9005	Serina LaShawn Foy	Three Point Advantage and the Angles of the Arc	Northwest High School	Constance Brown
9006	Marcello Antony Santarsiera	Structural Resistance to Applied Force	Northwest High School	Constance Brown

### **Medicine and Health**

10001	Hannah Elizabeth Garrett	The Effects of Fluoride and Acid on Teeth	Clarksville Academy	Katie Saxon
10002	Christina Marie Watts	Fastest Dissolving Medication in HCl	Clarksville Academy	Katie Saxon
10003	Heather Elyse Haggard	The Solubility of Water-Soluble Vitamins at Varying pH conditions: Implications for Absorption in the Stomach	Greenbrier High School	Ronnie Lee Nixon
10004	Andrew Marshall Burkhart	Comparison Between Using Commercial, Hazardous Chemicals and Using Healthier Alternatives	Northwest High School	Constance Brown
10005	Todd E. Dalton	The Potential Caloric Energy Content of Various Types of Nuts	Northwest High School	Constance Brown
10006	Jasmine Taylor Darnell	Analyzing Acetylsalicylic Acid	Northwest High School	Constance Brown

### **Microbiology**

11001	Crystal Elizabeth Cuevas	How Dirty Is My School?	Clarksville Academy	Katie Saxon
11002	Molly Hill Gigandet	The Five Second Rule	Clarksville Academy	Katie Saxon

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11003	Sarah Morgan Massey	How Much Bacteria Grows In Antibacterial Make-up?	Clarksville Academy	Katie Saxon
11004	James Theoplis McCoin II	The Resistant Bacteria E. coli	Clarksville Academy	Katie Saxon
11005	Bryan McLeese	The Effect of Electrical Current on E. coli Growth	Clarksville Academy	Katie Saxon
11006	Miriam Y. Walker	The Effect of Organic Bacteria on the Rate of the Iron Oxidation Process	Northeast High School	Brenda Gray

### **Physics**

12001	Elizabeth C Baggett	The Physics of a Roller Racer	Clarksville Academy	Katie Saxon
12002	Malcolm Thomas Black	How Far Electricity Moves Through the Air	Clarksville Academy	Katie Saxon
12003	Maxwell Brasher	The Amount of Drop in a Bullet Due to Gravity	Clarksville Academy	Katie Saxon
12004	Katie Lynn Calhoun	What Is The Refraction of Liquids Versus Temperature?	Clarksville Academy	Katie Saxon
12005	Gregory Andrew Ferst	TREBUCHET	Clarksville Academy	Katie Saxon
12006	Knox Faulin Goostree	Building a Simple Electronic Generator	Clarksville Academy	Katie Saxon
12007	Kareigh Janzen Goostree	Flight of Different Golf Balls	Clarksville Academy	Katie Saxon
12008	Nathan A Griffy	Pressure in the Football Affects Its Flight	Clarksville Academy	Katie Saxon
12009	Stuart Benjamin Haase	Rocket Aerodynamics	Clarksville Academy	Katie Saxon
12010	Jessica Kei-lin Huang	Heat Insulation	Clarksville Academy	Katie Saxon
12011	Lawton Jackson	Does Freezing Affect Middle?	Clarksville Academy	Katie Saxon
12012	Sonia Jatin Kadakia	The Effect of Friction on Objects in Motion	Clarksville Academy	Katie Saxon
12013	Mark Thomas Leamon	Tee Off	Clarksville Academy	Katie Saxon
12014	Matthew Steven Lowe	Probability of Scoring In Soccer	Clarksville Academy	Katie Saxon
12015	Benjamin Cody Marshall	How Does Rust, Oil, and Mud Affect the Speed of a Ball Bearing?	Clarksville Academy	Katie Saxon
12016	Andrew YuNam McCurdy	Thermal Insulation	Clarksville Academy	Katie Saxon
12017	John Dering McIntosh	Does Velocity Affect Sinking Objects?	Clarksville Academy	Katie Saxon
12018	Alexander Zienoun Mokbel	Which Airfoil Design Creates the Most Lift?	Clarksville Academy	Katie Saxon
12019	Stephanie Renee Nickell	Projectile Launcher	Clarksville Academy	Katie Saxon
12020	Herak Rohit Patel	Energy Usage of LED and Incandescent Bulbs	Clarksville Academy	Katie Saxon

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12021	Samuel Jamar Porter	Durability of Different Backboards	Clarksville Academy	Katie Saxon
12022	David Justin Prescott	How Stuff Breaks	Clarksville Academy	Katie Saxon
12023	William Caleb Ragsdale	Broadhead Penetration	Clarksville Academy	Katie Saxon
12024	Collin Shafik Saleh	Magnetic Levitation	Clarksville Academy	Katie Saxon
12025	Logan Priscilla Shoemaker	Proving Ohm's Law	Clarksville Academy	Katie Saxon
12026	Timothy Jones Suess	Aerodynamics of Crossbow Bolt vs Blow Dart	Clarksville Academy	Katie Saxon
12027	Branden Lee TenBrink	The Strength of an Electromagnet	Clarksville Academy	Katie Saxon
12028	Tyler Wayne Thompson	Which Hits a Baseball Further: Metal or Wooden Baseball Bats	Clarksville Academy	Katie Saxon
12029	Robert Merle Tipton	Rifles	Clarksville Academy	Katie Saxon
12030	Elizabeth Nichole Tuttle	Efficiency of Different Insulative Materials	Clarksville Academy	Katie Saxon
12031	Kayla Marie Valasquez	Will Air Pressure Affect the Bounce of a Ball?	Clarksville Academy	Katie Saxon
12032	Tyler Steven Wright	Tennis Ball Bounce Variables	Clarksville Academy	Katie Saxon
12033	Chelsey Christina Ellenburg	The Application of Stokes' Law to Sedimentation Rate for Particle Size Determination	Greenbrier High School	Ronnie Lee Nixon
12034	Ksenia Kuznetsova	Second Harmonic Generation for Laser Manufacture of Nanochannels	Tullahoma High School	Lloyd Davis

### **Zoology**

13001	Virginia Ashlee Strother	Freshwater Jellyfish, Craspedacusta Sowerbyi, in North Central Tennessee: Factors Favorable to Its Proliferation	Greenbrier High School	Ronnie Lee Nixon
13002	Chelsey Gayle Sorter	Got Milk??	Northeast High School	Brenda Gray

### **Team Projects**

14001	Dominique Annette Beasley Kira Renee Leander	What's in Your OJ?	Martin Luther King, Jr. Magnet	Dawn Donovan
14002	Bianca J. Mgbemere Caroline K. Nott	Filtered Out!	Martin Luther King, Jr. Magnet	Dawn Donovan