

<u>No.</u>	<u>Exhibitor</u>	<u>Title of Exhibit</u>	<u>School</u>	<u>Teacher</u>
6th Grade				
601	Jacob McKinney Smith	Does Age Affect a Child's Ability to Distinguish Medicine from Candy?	Cascade School	Jean Gallagher
602	Isaac Noah Vasquez	Rave Wave	Kenwood Middle School	Brenda Street
603	Zack Bapty	Can You Name That Voice?	Meigs Magnet School	Jamie Phifer Schimenti
604	Brianna Nicole Breyer	Can Your Doghouse Be Good and Green?	Meigs Magnet School	Jamie Phifer Schimenti
605	Kelsey Grace Driscoll	Does the Bacteria On The Mouthpiece of a Water Fountain Contaminate The Water That We Drink?	Meigs Magnet School	Jamie Phifer Schimenti
606	Hadley Stark McCammon	Genders and Generations; Where do the Differences Lie?	Meigs Magnet School	Jamie Phifer Schimenti
607	Michael Mehdi Mohieddin	Does Coke Affect Plants?	Meigs Magnet School	Jamie Phifer Schimenti
608	Nimrit Kaur Mokha	What is the Bearing Capacity of Different Types of Soils?	Meigs Magnet School	Jamie Phifer Schimenti
609	Elliott Charles Thurman	Vision vs. Taste	Meigs Magnet School	Jamie Phifer Schimenti
610	Trett Travaglini	Music with Mood	Meigs Magnet School	Jamie Phifer Schimenti

7th Grade

701	Colt James Michael Holliman	Variation of Energy Output of Solar Cells Exposed to Various Wavelengths of Electromagnetic Radiation	Greenbrier Middle School	Ronnie Lee Nixon
702	Hunter Ryan Arms	The Egg In The Bottle	Kenwood Middle School	Patsy Cheatham
703	Mercades L.C. Searfass	Ch-Ch-Chill Out	Kenwood Middle School	Patsy Cheatham
704	Stacey Raejean Whitson	A Rainbow of Colors	Kenwood Middle School	Patsy Cheatham
705	Jerrot Lewis Attias	Card Counting Conundrum	Martin Luther King, Jr. Magnet	Kathy Lee
706	Robert Thomas Bailey	The Deep Pass... Touchdown!	Martin Luther King, Jr. Magnet	Kathy Lee
707	Rachael Marie Christian	Bib Time	Martin Luther King, Jr. Magnet	Kathy Lee
708	Jeremias E Elston	The Kick is Up... and Good!	Martin Luther King, Jr. Magnet	Kathy Lee
709	Samuel Evan Ganick	Got Tennis?	Martin Luther King, Jr. Magnet	Kathy Lee

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710	Tristan Blake Greeno	Blocked!	Martin Luther King, Jr. Magnet	Kathy Lee
711	Qiaozhi Chelsea Guo	Pitch Perfect	Martin Luther King, Jr. Magnet	Kathy Lee
712	Ilyana Roumenova Ilieva	The Perfect Swing	Martin Luther King, Jr. Magnet	Kathy Lee
713	Janie Deng Liu	Let It Spin!	Martin Luther King, Jr. Magnet	Kathy Lee
714	Michelle Lu	Got Water?	Martin Luther King, Jr. Magnet	Kathy Lee
715	Jyothsna Roopa Mulpuri	Poison Ivy: Friend or Foe?	Martin Luther King, Jr. Magnet	Kathy Lee
716	Kathleen Renee Munkel	Truss-Worthy?	Martin Luther King, Jr. Magnet	Kathy Lee
717	Ngan Thanh Nguyen	Singing Wineglass	Martin Luther King, Jr. Magnet	Kathy Lee
718	Kisyva K Nthenge	Unsafe Vegetables - Antibiotic-Resistant Salmonella in Vegetables	Martin Luther King, Jr. Magnet	Kathy Lee
719	Savannah Rae Osborn	A Good Kick?	Martin Luther King, Jr. Magnet	Kathy Lee
720	Sara Shaghaghi	Lactose, Lactose, Lactose Everywhere	Martin Luther King, Jr. Magnet	Kathy Lee
721	Sara Elizabeth Small	Anger the Sun... And the Sun Flares Up!	Martin Luther King, Jr. Magnet	Kathy Lee
722	Heather Michelle Smith	Speed of a Mustang	Martin Luther King, Jr. Magnet	Kathy Lee
723	Richard Justin Wangler	Shocks and Temperatures	Martin Luther King, Jr. Magnet	Kathy Lee
724	Mira Rose Wasserman	Pendulum Swingers	Martin Luther King, Jr. Magnet	Kathy Lee

8th Grade

801	Eric Thomas Fagan	Can You See Me?	Kenwood Middle School	Gayle E Hartley
802	Taylor Nicole Rutledge	Crystal Wonder	Kenwood Middle School	Gayle Hartley
803	Dalv C Ejiofor	Not So Dark After All: The Evaluation of Urban Skyglow	Martin Luther King, Jr. Magnet	Dawn Donovan
804	Bemenet Tsegaye Getachew	Heavy Metal Oxidation	Martin Luther King, Jr. Magnet	Dawn Donovan
805	Jazzy Alvia Hawkins	Get Ready, Get Set, Race!	Martin Luther King, Jr. Magnet	Dawn Donovan
806	Rafat M Hossain	Charging Ahead	Martin Luther King, Jr. Magnet	Dawn Donovan
807	Samuel Wilson Klockenkemper Colin Burk Harney	Solulized	Martin Luther King, Jr. Magnet	Dawn Donovan

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808	Jeewar M Kokoy	Zoom! Zoom! Zoom!	Martin Luther King, Jr. Magnet	Paul Bass
809	Rohan Nag	Go Green! Reuse Refuse to the Last Drop!	Martin Luther King, Jr. Magnet	Dawn Donovan
810	Noah Isaac Ramage	The Effect of Chewing Gum on Concentration	Martin Luther King, Jr. Magnet	Paul Bass
811	Navila Fahmida Sharif	Hang On!	Martin Luther King, Jr. Magnet	Paul Bass
812	Mattie Susan Spain	Plant vs. Pesticide	Martin Luther King, Jr. Magnet	Dawn Donovan
813	Allen Cooper Sudbrink	A Comparison of Myxomycete Growth on Agar with Different Types of Nutrients	Martin Luther King, Jr. Magnet	Paul Elton Bass
814	Ayana Abbie Wild	The Effect of Common Liquids on a Cell's Ability to Live	Martin Luther King, Jr. Magnet	Paul Elton Bass
815	Mustapha F Williams	Man-Made Earthquakes	Martin Luther King, Jr. Magnet	Dawn Donovan
816	Maximilian H Carter	Improving Cell Surface Expression of PMP22 Mutants Associated with CMT	West End Middle School	Clifford Cockerham

Behavioral and Social Sciences

1001	Brianna Joelle Fuller	Correlation Between Relative Pitch, Age, Gender, and Musical Training	Clarksville Academy	Katie Saxon
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Botany

3001	Megan Catherine-Noral Bandel	Comparing the Effects of Different Lights on Plants	Clarksville Academy	Katie Saxon
3002	Anna S Batson	Polluted Plants	Clarksville Academy	Katie Saxon
3003	Colin James Bevis	The Difference Between Organic and Genetically Modified Tomato Seeds and the Effects of Pesticides	Clarksville Academy	Katie Saxon
3004	Mackenzie Camille Coffman	Antibiotic Usage on Plants	Clarksville Academy	Katie Saxon
3005	Heath S Dyer	Plant Growth Using Different Types of Soil	Clarksville Academy	Katie Saxon
3006	Winston Lee Ford	How pH Affects Plant Growth	Clarksville Academy	Katie Saxon
3007	Lauren Danielle Phillips	Organic or Chemical Fertilizer?	Clarksville Academy	Katie Saxon
3008	Chelsi Francis Warren	Bigger Bloom with Juice	Clarksville Academy	Katie Saxon
3009	Lauren Ashton Yarbrough	Seed Germination and the Amount of Light Needed to Grow	Clarksville Academy	Katie Saxon

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Chemistry				
4001	Joshua Jerel Bieck	CaCO ₃ Waterfall	Clarksville Academy	Katie Saxon
4002	LeAnn Marie Boggs	Effect of Various Oils on a Pigment's color	Clarksville Academy	Katie Saxon
4003	Joshua Emilio Flecha	Cooling Your Soda the Fastest	Clarksville Academy	Katie Saxon
4004	Sarah Elizabeth Siler	Carbon Gas Emissions	Clarksville Academy	Katie Saxon
4005	Robert Franklin Stanfill	Acids and the Effect They Have on Metals	Clarksville Academy	Katie Saxon
4006	Jane Elisabeth Stevens	The pH Level of Juices at Different Temperatures	Clarksville Academy	Katie Saxon
4007	Amber Dawn Stokes	The Effect of Coke Acids on Metals	Clarksville Academy	Katie Saxon
4008	Gavin Brent Nixon	The Preparation of Lead Sulfide Doped Cadmium Sulfide photocatalyst and Its use in the Decomposition of Water	Greenbrier High School	Ronnie Lee Nixon
4009	Saad Chaudry Rehman	Development of an Immunopurification Strategy for the Analysis of 2C-R	Martin Luther King, Jr. Magnet High	Chand Desai
4010	Caitlin Raeann Jackson	Water, Water Everywhere	Montgomery Central High School	Teresa Jean Celusta
4011	Tayler Marie Jolly	The Permanancy of Permanent Markers	Clarksville Academy	Katie Saxon
Engineering				
7001	Ethan Cannon Green	A Volumetric Display for Creating Three-Dimensional Images in Motion	Aaron Academy	Bob Dale Green
7002	Julie Ann Covington	Heating Up with Hydrogen	Clarksville Academy	Katie Saxon
7003	Kemysha Laveildymaun Cross	I Need Energy...Would You Like Water or Air?	Clarksville Academy	Katie Saxon
7004	Katelan Michelle King	A Comparison of Vertical Axis Wind Turbines	Clarksville Academy	Katie Saxon
7005	Chris James King	Fine Control of Electromagnetic Levitation: A Second Year Study	Creekwood High School	Terrill Johnson
7006	Ziwei Leng	Frictional Properties of Pure and Mixed Trichlorosilane Monolayers	Martin Luther King, Jr. Magnet High	Chand Desai
7007	Patrick Chandler Watkins	Levitation/Monorail Train	Westmoreland High School	Joe Garrison
Environmental Sciences				
8001	Skylar Bliss Guerra	Rural Areas vs. Urban Areas: Which is More Polluted?	Clarksville Academy	Katie Saxon
8002	Matthew Timmy Alsup	Removing CO ₂ from Exhaust with Sodium Hydroxide	Clarksville Academy	Katie Saxon

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8003	John Walton Askew	Comparative Analysis of the Biodegradability of Plant Based Containers	Clarksville Academy	Katie Saxon
8004	Tyler Lee Edlin	Deer Plots	Clarksville Academy	Katie Saxon
8005	Brittany Nicole Heath	Finding What Sugar Amount Hummingbirds Prefer	Clarksville Academy	Katie Saxon
8006	Richard Tyler Marshall	How Antibacterial Substances Affect the Performance of a Septic System	Clarksville Academy	Katie Saxon
8007	Cody Alexander Sirk	Depth Profile of the Lifezone of Pennyroyal Quarry	Clarksville Academy	Katie Saxon
8008	Killian Sean White	A Comparison of Various Field Water Purification Methods	Clarksville Academy	Katie Saxon
8009	Gregory A Markov	Using Algae and Nitrogen-Polluted Water in a Photobioreactor for Hydrogen Production	Franklin High School	Serjei A Markov
8010	Ashlea Renee Smiley	Natural Remediation of Surface Water within the Red River Watershed, Robertson County, Tennessee	Greenbrier High School	Ronnie Lee Nixon

Mathematics and Computer Science

9001	Kyra Rebecca Bishop	Genetic Probability Calculator	Clarksville Academy	Katie Saxon
9002	Travis Wade Anderson	The Geometry of non-Euclidean Spherical Surfaces	Greenbrier High School	Ronnie Lee Nixon

Medicine and Health

10001	Ashley Danielle Rhoads	Which Pills Dissolve Faster in Acids?	Clarksville Academy	Katie Saxon
10002	Alina Y. Jennings	Clopidogrel Bilsulfate (Plavix) Only Partially Inhibits Platelet Aggregation	Ensworth High School	Jessica Field
10003	Ashley Brooke Fuqua	The Effects of Temperature and Humidity Storage Conditions on the Srength of Ascorbic Acid	Greenbrier High School	Ronnie Lee Nixon
10004	Jason Michael Fox	A Hypomorphic Mutation in Tbx2b Affects Asymmetric Brain Development in Zebrafish	Martin Luther King, Jr. Magnet High	Chand Desai
10005	Vidiya Sathananthan	Insulin Regulation of the Norepinephrine Transporter	Martin Luther King, Jr. Magnet High	Chand Desai

Microbiology

11001	Michala Leigh Burman	The Effect of Pollutants on Bioluminescent Bacteria	Clarksville Academy	Katie Saxon
11002	Blaire O'Neil Fleming	Which Household Cleaner Kills Bacteria Most Effectively?	Clarksville Academy	Katie Saxon
11003	Emily Nell Henson	Bacteria in Our School Environment	Clarksville Academy	Katie Saxon
11004	William Alexander Smith	The Effects of Capsaicin on the Gowth Rate of E. Coli K-12	Greenbrier High School	Ronnie Lee Nixon

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Physics				
12001	Misty Rose Mitchell	The Science in the Spatter	APSU Middle College High School	Rick Harris
12002	Miles C. Barger	Fastball vs. Curveball: Difference in Distance	Clarksville Academy	Katie Saxon
12003	Michael Grant Ellis	Lumens of Lightbulbs	Clarksville Academy	Katie Saxon
12004	Dustin L Hoskins	How Would Color and Temperature Affect the Refraction of Light?	Clarksville Academy	Katie Saxon
12005	Miller Zachary Hyams	Magnets and Magnetism	Clarksville Academy	Katie Saxon
12006	Taylor Ryan Jurisin	Electromagnetic Coils	Clarksville Academy	Katie Saxon
12007	Tyler Jordan Lewis	The Effectiveness of a Paintball's Accuracy Due to Its Temperature	Clarksville Academy	Katie Saxon
12008	Leah Bernadette Roach	How Does the Size and Shape of a Plane Affect Drag?	Clarksville Academy	Katie Saxon
12009	Ryan Thomas Sanford	The Effects of a Fuel Cell in Different Temperatures	Clarksville Academy	Katie Saxon
12010	Grant Thomas Schryver	How Aerodynamic Drag of a Pickup Truck Bed Affects Its Gas Mileage	Clarksville Academy	Katie Saxon
12011	Tyler John Shrum	The Filtration of Air	Clarksville Academy	Katie Saxon
12012	Alexander Bailey Styer	The Effect of Body Tube Length on Rocket Flight	Clarksville Academy	Katie Saxon
12013	Andrew L Traughbor	Potato Power	Clarksville Academy	Katie Saxon
12014	Jessica Marie Silbaugh	Making a Motor and Manipulations	Montgomery Central High School	Teresa Jean Celusta
Team Projects				
14001	Elizabeth Choate Crenshaw Emily Rhodes Crenshaw	Start With The Soil	Martin Luther King, Jr. Magnet	Dawn Donovan
14002	Busra Gungor Jenny Jie Zheng	Up, Up, and Away	Martin Luther King, Jr. Magnet	Paul Bass
14003	Mitchell Tyler Henderson Jeremy Rogan Sanders	Picture Perfect	Martin Luther King, Jr. Magnet	Dawn Donovan
14004	Tanner Joe Schroeder Christine Jeanette Hassell	The Regada Armada	Middle College High School	Rick Harris
14005	Jerry Dean Hicks Malia Rae Baylor	Using Wet Cells to Power an Electric Motor	Montgomery Central High School	Teresa Jean Celusta
14006	Courtney Megan Nix Cassie Opal Watson	The Great Crystal Race	Montgomery Central High School	Teresa J Celusta
14007	Megan Joann Wall Kristen Nichole Sykes	Energy Content of Foods	Montgomery Central High School	Teresa Jean Celusta

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14008	Jessica Michelle Watts Carla Winn Smith	Is It In You?	Montgomery Central High School	Teresa Jean Celusta