

<u>No.</u>	<u>Exhibitor</u>	<u>Title of Exhibit</u>	<u>School</u>	<u>Teacher</u>
6th Grade				
601	Justina Marie Ledbetter	The Growth of a Plant	Kenwood Middle School	Brenda N Street
602	Walter Evan Celusta	Airfoil Design	Montgomery Central Middle School	Laurence Ellis Lee
603	Nathaniel Raymond Wilson	Bubbles in Hot Water vs. Bubbles in Cold Water	Kenwood Middle School	Karen C. Harter
604	Nichole Amber Burdell	The Growth of Crystals in Different Environments	Kenwood Middle School	Karen C. Harter
7th Grade				
701	Gavin Brent Nixon	Using Laser Diffraction to Study Colloidal Suspensions	Greenbrier Middle School	Ronnie Lee Nixon
702	Jaron Shalom Rottman-Yang	Do Heart Cells Meet Energy Demands By Producing More Mitochondria	Meigs Magnet School	Jamie Phifer Schimenti
703	James Michael Clute	Sticky Situation	Martin Luther King, Jr. Magnet	Kathryn O Lee
704	Jeremiah Timothy Cooper	Hot Rocks	Martin Luther King, Jr. Magnet	Kathryn O Lee
705	Steven Daniel Chaney	Drop Down Or Spin Around	Martin Luther King, Jr. Magnet	Kathryn O Lee
706	Tracey Tomlin Hicks	Material Selection And Its Impact On The Structural Strength of Trusses	Martin Luther King, Jr. Magnet	Kathryn O Lee
707	Troie Deneen Journigan	What Is The Effect of Tea Solutions On Cancer Cell Growth?	Martin Luther King, Jr. Magnet	Kathryn O Lee
708	Habeeb Alade Kotun	Kidney Bean Germination	Martin Luther King, Jr. Magnet	Kathryn O Lee
709	Lauren C. Lu	Bubble Busters	Martin Luther King, Jr. Magnet	Kathryn O Lee
710	John Patrick McNiell	What's That Sound?	Martin Luther King, Jr. Magnet	Kathryn O Lee
711	Schaeffer Lewis Mallory	What's The Temperature of Your Pitch?	Martin Luther King, Jr. Magnet	Kathryn O Lee
712	Bianca I. Mgbemere	Drinking Dirty	Martin Luther King, Jr. Magnet	Kathryn O Lee
713	Caroline Kathryn Nott	Coming Unglued	Martin Luther King, Jr. Magnet	Kathryn O Lee
714	Mihir Patel	Can You Drive In The Fog?	Martin Luther King, Jr. Magnet	Kathryn O Lee

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715	Muqtasid Naseer Qureshi	Measurement of Fat Levels In Five Different Snacks	Martin Luther King, Jr. Magnet	Kathryn O Lee
716	Preston Hugo Palm	Parbola Power	Martin Luther King, Jr. Magnet	Kathryn O Lee
717	Allison Kate Peters	It Don't Mean A Thing If It Ain't Got That Swing	Martin Luther King, Jr. Magnet	Kathryn O Lee
718	Alexa Mary Romersa	Nuttural Energy	Martin Luther King, Jr. Magnet	Kathryn O Lee
719	Shanna Marie Rucker	Will It Break?	Martin Luther King, Jr. Magnet	Kathryn O Lee
720	Katie Morgan Solomon	A"head" Of The Game	Martin Luther King, Jr. Magnet	Kathryn O Lee
721	Parisa Tavakoli	Wet Salt On A Sunny Day	Martin Luther King, Jr. Magnet	Kathryn O Lee
722	Connie Haidan Zhu	Raising The Heat On Yeast	Martin Luther King, Jr. Magnet	Kathryn O Lee
723	Maxwell Reid O'Dell	How The Shape of A Rocket's Nosecone Affects The Horizontal Distance It Can Travel	Martin Luther King, Jr. Magnet	Paul Elton Bass
724	Michael Griffith Taylor	Electricity Versus Planaria	Martin Luther King, Jr. Magnet	Paul Elton Bass
725	Annabelle Lee Tyree	Which Material Insulates A House Better?	Martin Luther King, Jr. Magnet	Paul Elton Bass
726	Brittany Yvonne Taylor	Go, Go, Go	Martin Luther King, Jr. Magnet	Paul Elton Bass
727	Emily Hamrick Kleinfelter	Crisco or Pam? Which Cooking Spray Works Best?	Martin Luther King, Jr. Magnet	Paul Elton Bass
728	Dennis Chinedum Ejorh	Water Combination Experimentation	Martin Luther King, Jr. Magnet	Paul Elton Bass
729	Brent Maxwell Ritter	Nitrites, The Good, Bad, and Ugly	Martin Luther King, Jr. Magnet	Paul Elton Bass
730	Zachary Jordan Searfass	Soil Sensor	Kenwood Middle School	Matthew Koehler
731	Ashley Marie Mayer	Ripening Bananas	Kenwood Middle School	Shona McLaurin
732	Aubrey Bloom	Finding the Wright Stuff	Martin Luther King, Jr. Magnet	Kathryn O. Lee
733	Alicia Marie Kingston	Deteriorating Teeth	Kenwood Middle School	Priscilena Shearon
734	Sam C DeBord	What Should I Grow My Seeds In?	Martin Luther King, Jr. Magnet	Kathryn O Lee

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8th Grade				
801	Joseph Beard	The Eradicator	Fairview Middle School	Nancy Gilbert
802	Aaron Broder	Flip-Flap	Martin Luther King, Jr. Magnet	Kathryn O Lee
803	Adam Tyler Bell	Acid Grass!	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
804	Kayla Miyoko Saito	Chemical Catastrophe	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
805	Rita E. Pfeiffer	The Little Crank That Moves	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
806	Lendsey B. Thicklin	Salty Water	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
807	Layth Fadi Ezzeir	Refracting Light	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
808	Lucas Marsh Delheimer	Stayin' Aloft	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
809	Jennifer Rachel Oakes	Determining a Correlation Between Push-off and Swimming Velocity in Competitive Freestyle	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
810	Allie Leslie Horick	That's The Way The Ball Bounces	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
811	Haley Nicole Moirs	Got Dog Treats?	Kenwood Middle School	Jaime Erica Zysling
812	Brandon J. Tansil	Reaching a Breaking Point	Martin Luther King, Jr. Magnet	Brandi Fisher
813	Ekombong Edet Eyoff	Daphnia Magnificent	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan

Behavioral and Social Sciences

1001	Ashley Noel Kelly	Cell Phones and Reaction Time	Northeast High School	Brenda Gray
1002	Justin Keith Wynn	200 For 10	Northwest High School	Constance Brown
1003	Clint Joel Miller	Word Memorization	Northwest High School	Constance Brown

Biochemistry

2001	Brent Alexander Gass	Carbon Dioxide Production from Glucose Decomposition Catalyzed by Various <i>Saccharomyces Cerevisiae</i> Subspecies: Phase II, The Rate Law	Greenbrier High School	Ronnie Lee Nixon
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2002	Nicolas John Santarsiera	The Effects of Electricity on Plant Growth	Northwest High School	Constance Brown
2003	Sabrina Ann Papesca	Catechol Oxidase	Northeast High School	Brenda L Gray
2004	Zunir Tayyeb Chaudhry	Inhibiting PDGF Receptor to Test OPC Proliferation in the Central Nervous System	Martin Luther King, Jr. Magnet	Chand Desai
2005	Hairan Zhu	Effects of Dietary Fat and Presence of FOXM1 on Beta Cell Apoptosis	Martin Luther King, Jr. Magnet	Chand Desai

Botany

3001	Erick Keith Clow	Hydroponics And Cost Efficient Mediums	Northwest High School	Michael W McKinney
3002	Keyla Jeanice Bonaparte	Chemical Inhibition To Plant Growth	Northwest High School	Michael McKinney
3003	Melissa Ann Hughs	Magnetic Fields On Plant Growth	Northwest High School	Michael McKinney
3004	Candace Latryce Barbour	Effect of Sucrose On Lima Bean Growth	Northeast High School	Brenda L Gray

Chemistry

4001	Carey David Ridiner	The Factors That Influence the Particle Size of Copper Powder Produced From a Single Replacement Reaction	Greenbrier High School	Ronnie Lee Nixon
4002	Holly A Jordan	An Analysis of Titration Methods to Determine Which Has the Most Accurate Observable Endpoint in An Aspirin Assay	Home	Kelley W Jordan
4003	Tabatha Denise Murphy	Diffusion Rate of Hydronium and Hydroxide Ions into Agar	Northwest High School	Constance Brown
4004	Julius Grant Bratton	The Effect of Pressure On a Carbonic Acid Solution	Northwest High School	Constance Brown
4005	Jordan Elizabeth Stumph	Diffusion of Sugars	Northwest High School	Michael McKinney
4006	Karole Raquel Barlow	Vitamin C Determination Using Titration	Northeast High School	Brenda L Gray
4007	Mitchell Ryan Laliberte	Determining Levels of Carbon Monoxide In Car Emissions	Northwest High School	Constance Brown
4008	Justin Michael Finley	Crime Scene	Northwest High School	Constance Brown

Earth and Space Sciences

6001	Trevarius Lee Newman	Analyzing The Breakage of Various Materials	Northwest High School	Constance Brown
6002	Chloe Marie Alexander	The Relationship Between Galaxy Distance and Redshift	Northwest High School	Michael/Constance McKinney/Brown

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Engineering				
7001	Paxton N.D. Jones	Efficiency Between Pneumatic And Gas Motors	Northwest High School	Constance Brown
7002	Josh Gentry	Caulk	Northwest High School	Constance Brown
7003	Chris James King	Wireless Power Transmission Through Electromagnetic Resonance	Creekwood High School	Terrill Johnson
7004	Chenxia Monica Guan	Nanoengineering of Stent Surfaces Using Layer-by-Layer Assembly	Martin Luther King, Jr. Magnet	Kathy Lee
Environmental Sciences				
8001	Elizabeth Ashley Cuthren	Compacting Household Waste	Northwest High School	Constance Brown
8002	Djaninn Mae Shannon	Water Quality of Smith Branch Part of The Cumberland River	Northwest High School	Michael W McKinney
8003	Vanessa Lynn Huntley	Bioremediation	Northwest High School	Constance Brown
8004	Joe Eric Coneo	Soil Absorption With Different Pollutants	Northwest High School	Constance Brown
8005	James Adam Yarbrough	Aquatic Micro-Organism Vegetation's Relation	Northwest High School	Constance Brown
Mathematics and Computer Science				
9001	Taffeta Chime O'Neal	Star-Streak Photography for the Accurate Calculation of Stellar Declination	Greenbrier High School	Ronnie Lee Nixon
9002	Jenny Annette Davis	Is \$10,000 In Your Future???	Montgomery Central High School	Celusta J Teresa
Medicine and Health				
10001	Elizabeth Mary Robert	Expression of the Myocyte-enhancing Factor MEF2 in Rat Brain	Harpeth Hall School	Michael Scott Myrick
10002	Catherine Marie Higham	Screening of the N-Acetyl-Glutamate Synthase Gene for Polymorphic Variants	Harpeth Hall School	Michael Scott Myrick
10003	Courtney Danielle Novak	Correlation of Foot Characteristics and Height	Northwest High School	Constance Brown
10004	Samantha Marie Catalano	The Cost of Beauty Can Be a Little Too High	Northwest High School	Constance Brown
10005	Tiao Guan	The Expression of Farnesoid X Receptor (FXR) Along the Urinary Tract	Martin Luther King, Jr. Magnet	Jimmy Hao

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Microbiology				
11001	Adam Travis	Harmful Bacteria in Public Places	Northwest High School	Constance Brown
11002	Sydney Brown	Hazardous Mold	Northwest High School	Constance Brown
11003	Steven Douglas VanNevel	Fast-food Bacteria	Northwest High School	Constance Brown
11004	Jelani Pritchett	Is Staphylococcus Present Amongst Our School Facilities?	Northwest High School	Constance Brown
11005	Jessica Saxon	Similarity of DNA within an Extended Family	Northwest High School	Katie Saxon
11006	Angela Renee Bielefeld	The Effects of Gram-Positive and Gram-Negative Bacteria When Exposed to Different Concentrations of Common Disinfectants and Antibacterials	Northwest High School	Michael McKinney
11008	Eunbit Grace Cho	Cellular Respiration In Grapes	Northeast High School	Brenda L Gray
Physics				
12001	Ethan Cannon Green	A Study of Chladni's Interference Patterns	Greenbrier High School	Ronnie Lee Nixon
12002	Johannes Bernhardt Huelsmann	Perpetual Motion	Northwest High School	Constance Brown
12003	Christopher Raymond Garen	"Hawt" Conductivity	Northeast High School	Brenda L Gray
12004	Michael Allen Parmentier	Household Hybrid Rocketry	Northeast High School	Brenda L Gray
12005	Cory Andrew Garrett	Bungee Jump	Northwest High School	Constance Brown
Team Projects				
14001	Elizabeth Lynn Baggett Sarah Elizabeth LaBean	Evaporation of Alcohols	Montgomery Central High School	Teresa Celusta
14002	Sarah Michelle Deel Amanda Leighann Mouser	Gimme The Dirt	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
14003	Priyana Atul Gordhan Peepa K. Bhikha	Woody Wood	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
14004	Kendrick Jordan Sawyers Nicholas C. Hill	Going Long??	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
14005	Anthony D. Rodgers Andres Felipe Garcia	Blast Off!	Martin Luther King, Jr. Magnet	Dawn Hofwolt Donovan
14006	Paul H. Grayson Mark H. Brooks	Houston, We Have Liftoff!	Fairview Middle School	Nancy Gilbert