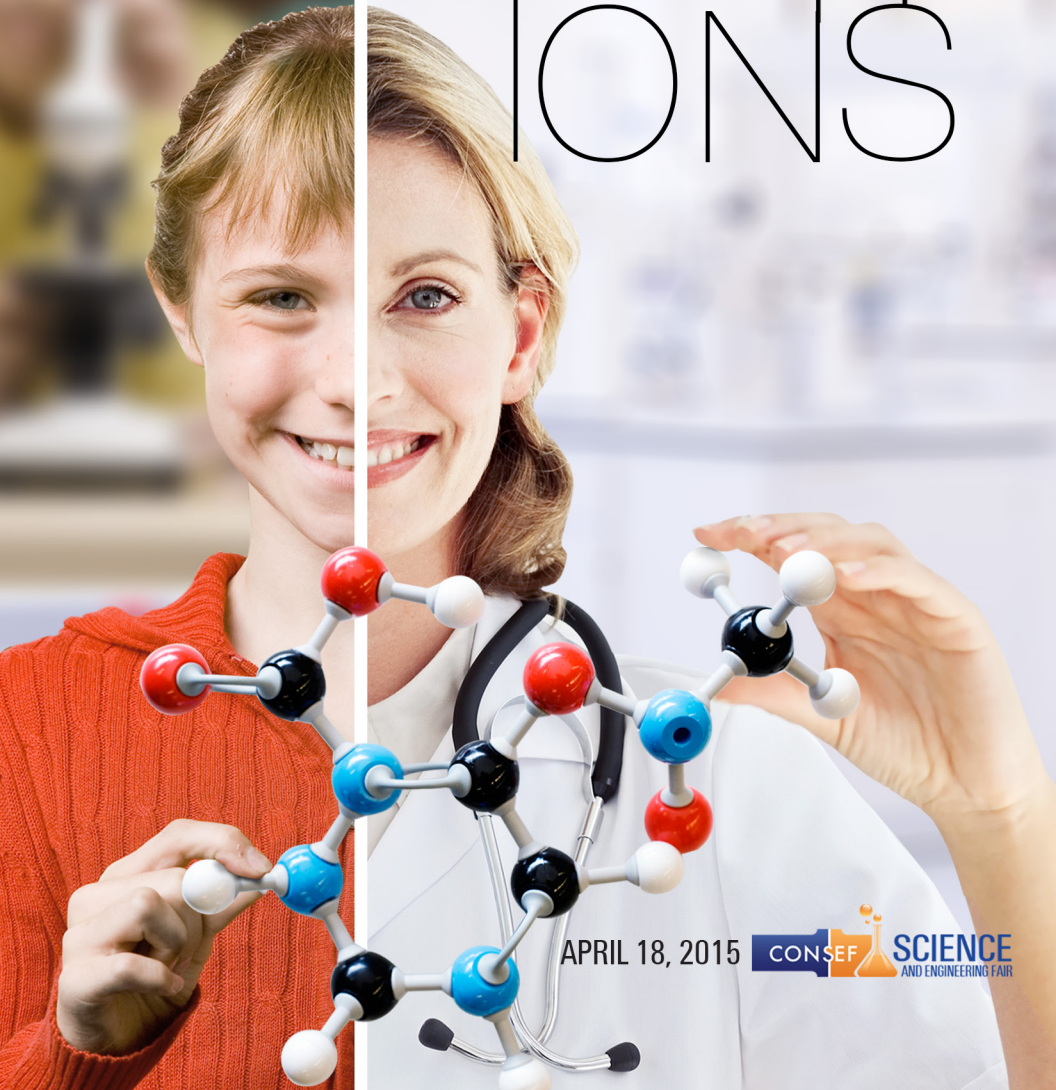


MAKING THE RIGHT  
CONNECTIONS



APRIL 18, 2015

CONSEF  SCIENCE  
AND ENGINEERING FAIR

## Note From President



Welcome to the 12th Annual STEMCON.

We believe every student has the potential to shine in the subjects of science, technology, math, and engineering and therefore encourage students to share their abilities and talents with other schools through this unique platform.

This year, STEMCON is hosting more than 800 projects, demonstrations, and shows from various schools in Ohio, Illinois, Indiana, Michigan, Missouri, Minnesota, and Wisconsin.

Student events are open to all schools in the Midwest as a way

to promote STEM education. We look forward to honoring every student with one of many awards ranging from Honorable Mention to Best of Categories.

As we all know, we rely more on science every day. As a member of the STEMCON Organizational Committee, I believe that the science fair project is one of the best learning experiences a student can undertake. The STEM subjects allow students to become more knowledgeable about how the world around them works. Enjoy a wonderful learning experience at STEMCON 2015, and please join us for future annual STEMCON's.

Sedat Duman,  
President & CEO of Concept Schools



## Schedule of the Day

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**8:00 am** – Staff Sign-in

**9:30 am** – Registration- Exhibit Hall C

**10:00 am** – Judges’ Meeting - Ballroom B

**11:00 am** – CONSEF PROJECT SESSION, STEM EXPO, and RoboCON- Exhibit Hall C

**1:00 pm** – Lunch & Scoring

**2:00 pm** –Awards Ceremony- Grand Ballroom C

Recognize Event Sponsors

Guest Speakers

Presentation of Individual Awards

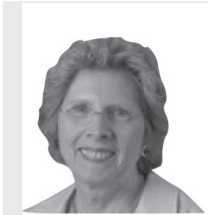
Presentation “Best of the Categories” Awards

Presentation “Best of the Schools” Awards

Junior Division:            Grades 5-8

Senior Division:            Grades 9-12

## Keynote Speakers



**Dr. Carolyn Hayes**  
President-Elect, National Science  
Teachers Association (NSTA)



**Kirsten Ellenbogen**  
Ph.D. President & CEO, Great Lakes  
Science Center

## Panelists

**Moderator**



James Bader, Executive Director,  
Leonard Gelfand STEM Center, Case  
Western Reserve University, OH

**Panelist**



Dr. Helen Soule, Executive Director,  
Partnership for 21st Century Skills, DC

**Panelist**



Anne Tweed, Director, STEM Learning,  
McRELInternational, CO

**Panelist**



Dr. Marie Anette Karlsson, Dean,  
Washkewicz College of Engineering,  
Cleveland State University, OH

## Expert Panel Guests From NASA Glenn Research Center

### Lance Foster, Aerospace Engineer (Panelist & Moderator)



Born and raised on the south side of Chicago, Lancert Foster graduated Kenwood Academy HS in 1994. He then attended Florida A&M University, from which he attained both his BS in Mechanical Engineering and a MS with a focus on Computational Fluid Mechanics. During his college career, he interned at a number of NASA centers - Glenn, Langley, Ames, and JPL. In 2002, he began work at NASA Glenn Research Center as an Aerospace Engineer in the Inlets and Nozzles Branch. Today, Mr. Foster works on a variety of projects related to aero-propulsion, including a Turbine-Based Combined Cycle Engine. Mr. Foster is National President of the National Technical Association (NTA) and frequently speaks to urban youth in Cleveland area schools.

### Lauren Demirjian, Human Resource Specialist



As an HR Specialist at NASA Glenn Research Center, Lauren is responsible for managing the Recruitment Program as well as supporting the Workforce Planning and Strategic Solutions division. Lauren started at NASA Glenn in June of 2010 as a co-op student. She earned her Bachelor's Degree from Kent State University in International Business and her Master's Degree in Labor Relations and Human Resources from Cleveland State University.

### Zachary Lucas, Resource Manager



Zachary Lucas, is a 2011 graduate of Tuskegee University in Tuskegee, Alabama, with a degree in accounting. Zach began as a co-op at the NASA Glenn Research Center in the summer of 2010 and became a full time employee in the Office of the Chief Financial Officer, in January of 2012. For 3 years, Zach held the role as a budget analyst and the center payroll administrator. In January of 2015, he switched careers to become the Resources Manager and Community Relations Specialist for the Office of Communications

### Ashlie Flegel, Aerospace Engineer



Ashlie Flegel is an aerospace research engineer at NASA Glenn Research Center. She is currently the Engine Icing Research lead conducting experiments with industry partners to understand the ice crystal icing phenomenon that can occur inside an engine. Ashlie has eight years of Turbomachinery experience. Ashlie began her NASA journey in 2002 as a high school intern and went on to participate in two LERCIP internships at NASA Glenn. She earned her Bachelor's degree in Mechanical Engineering from the University of Toledo in 2007, where she was heavily involved in the Society of Automotive Engineers (SAE) and was a four year Ohio Space Grant Consortium Scholar. In 2013 she earned her Master's in Mechanical Engineering from Cleveland State University.



## Categories

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Pr #	Abb	Category
1000	BEH	Behavioral Science
1100	BIO	Biochemistry
1200	BOT	Botany
1300	CHEM	Chemistry
1400	COMP	Computer Science
1500	EARTH	Earth & Space Sciences
1600	ENG	Engineering/Electronics
1700	ENV	Environmental Science
1800	HEALTH	Health Science
1900	MAT	Material Science
2000	MATH	Mathematics
2100	MICRO	Microbiology
2200	PHY	Physics
2300	ZOO	Zoology



## Projects

---

### **Chicago Math and Science Academy**

#### **Bizimungu Obedi**

1720 Environmental Science  
Carbon Dioxide Contribution to Global Warming

#### **Denzel Akosa**

1305 Chemistry  
Conductivity of Solutions

#### **Haris Qazi**

1371 Chemistry  
Producing Metals from Solutions

#### **Hernan Razo**

1375 Chemistry  
Isomerization of Maleic Acid to Fumaric Acid

#### **Jocelyn Perez**

2310 Zoology  
Molarity of Sucrose and Fruit Fly Behavior

#### **Makaila Smith**

1223 Botany  
Photosynthesis & Temperature

#### **River Atwood-Winner**

1604 Electronics/Engineering  
Metal Conductivity

#### **Sana Slote**

1730 Environmental Science  
Does Sediment Affect Aquatic Organisms?

#### **Tania Njiwah**

1125 Biochemistry  
Osmosis and Diffusion

#### **Yusra Aftab**

1303 Chemistry  
Deoxyribonucleic Strawberricid

### **Elyria Community Middle**

#### **Julianno Cross**

2213 Physics  
Roller Coaster Marbles

#### **Logan Gray**

2220 Physics  
How Does Temperature Affect the Stretch of a Rubber Band?

### **Gateway Science Academy – Elementary**

#### **Alexander Roland**

1631 Electronics/Engineering  
Can You Drive a Rescue Robot Faster by Standing Behind It or by Screen?

#### **Alexandria Soifer**

1032 Behavioral Science  
Can Gustatory Perception Be Masked?

#### **Andrea Finner**

1824 Health  
How Greasy Are Your Potato Chips?

**Brandon Remming**

1376 Chemistry

How Do Antacids Affect Stomach Acid Levels?

**Jefferson Putnam**

1630 Electronics/Engineering

What Blade Shape Creates the Most R.P.M.?

**Vahdet Karatas**

2227 Physics

How Does The Length of Wind Turbine Blades Affect Its Efficiency?

**Gateway Science Academy – Fyler****Abigail Nagl**

2239 Physics

The Weighting Games

**Charumati Deeljore**

1010 Behavioral Science

Twirls, Whirls, and Spins

**Corey Rauss**

1915 Material Science

Watts Hot

**Daniel Bohn**

2302 Zoology

What's In Your Water? A Bioassay

**Deshawna Flesch**

1710 Environmental Science

Nitrate Leaching by Organic and Inorganic Fertilizers

**Eda Sagnak**

2246 Physics

Biodiesel to Energy

**Fatima Celik**

1321 Chemistry

Evaporation Rates of Liquids

**Gracie Pinnell**

1629 Electronics/Engineering

Electric Generator

**Jayashree Deeljore**

1608 Electronics/Engineering

Solar Powered Charger

**Jordan Sedberry**

1728 Environmental Science

Disappearing Paper

**Katherine Campbell**

1204 Botany

Algae Growth in Inorganic and Organic Fertilizers

**Katheryn Elliott**

1822 Health

Artificially Scienced: How Do Artificial Sweeteners Affect Metabolism?

**Kyra Collins**

1811 Health

How Sweet It Is: Measuring Glucose in Your Food

**Mia Fiordimondo**

1113 Biochemistry

Blood Clotting to the Rescue

**Miles Bradford**

1606 Electronics/Engineering

Modifying a Camera to Capture Near-Infrared Spectrum



**Miriam Solis**

1508 Earth and Space Science  
Capillarity

**Nedret Sagnak**

2247 Physics  
Does Temperature Affect Magnetic Fields  
Strength?

**Neziha Aktas**

1102 Biochemistry  
The Effects of Anti Inflammatory Medicines  
(NSAID) on Liver Cells/Tissue

**Nikko Chirco**

1708 Environmental Science  
Is There Lead in Local Soil?

**Omer Ozkaya**

2106 Microbiology  
Which Oil Is More Effective in Killing Bacteria?

**Rana Karatas**

1117 Biochemistry  
Real or Fake Sugar: Does It Really Matter?

**Rowan Elliott**

1823 Health  
Dirty Science: Which Gender Is Cleaner?

**Seamus Kinealy**

1619 Electronics/Engineering  
Nanotechnology-A New Solution to Clean Up  
Oil Spills

**Sequoia Mayberry**

1017 Behavioral Science  
Music to Your Ears

**Sinjin Duncan**

1709 Environmental Science  
Greenhouses

**Sophie Bell**

1704 Environmental Science  
Throw Away Your Trash Can

**Hawken School**

**Dhweeja Dasarathy**

1816 Health  
Novel Approach to Identify Skeletal Muscle  
Mitochondrial Disorders

**Hilliard Tharp**

**Eslem Kucuker**

1119 Biochemistry  
Determination of Protein Molecular Weight  
and Its Biochemical Characterization

**Horizon Science Academy – Belmont**

**Isabel Abarca**

1101 Biochemistry  
Gas Station Soil

**Khiyla Pittman**

2107 Microbiology  
Everywhere Water

**Mia Matos**

1214 Botany  
Methane

**Noelani Barrientos**

1202 Botany  
Vitamin C

**Tianny Batista**

1308 Chemistry  
Cold Starts

**Horizon Science Academy – Cincinnati**

**Eliza Jackson**

1505 Earth and Space Science  
Dirty Snowballs

**Giovanni Williams**

1036 Behavioral Science  
Smell and Taste

**Jovan Fuller**

1335 Chemistry  
The Extraordinary Foam

**Kayvona Houston**

1907 Material Science  
Does Candle Color Matter?

**Nariyah McClain**

1361 Chemistry  
Minds of Their Own

**Rasan Arnold**

1105 Biochemistry  
DNA Identifying Analysis

**Tylee Jones**

1013 Behavioral Science  
Molding Food

**Horizon Science Academy – Cleveland  
High School**

**Batuhan Aslan**

1804 Health  
Which Anti-Fungal Medicine Effects Better  
Against the Fungus Disease?

**Christian Carlisle**

1320 Chemistry  
Spray Rocket

**Corey Rogers**

1839 Health  
Yeast Busters : Stopping Fungus in Its Tracks  
With Antifungal Medicines

**Del-Marcus Goolsby**

2306 Zoology  
Heart Rate Sensitivity: The Effects of Drugs  
on Daphnia

**Dewaine Billingsley**

2212 Physics  
How Does the Shape of a Parachute Affect  
the Drop Velocity?

**Heaven Martin**

1358 Chemistry  
Crime Scene Chemistry- The Cool Blue Light  
of Luminol

**Jeniesha Mckinney**

1362 Chemistry  
Measuring the Speed of Light with Micro-  
wave Oven

**Julie Leon**

1357 Chemistry  
Burning Calories

**Kayla Morton**

1366 Chemistry  
Rusting Out: Lemon Juice vs. Coffee

**Kevin Goolsby**

1341 Chemistry  
Electrolytes Challenge: Orange Juice vs.  
Sports Drink

**Laud Ashong**  
1803 Health  
Changes of the Teeth

**Markiyah Steel**  
1033 Behavioral Science  
How Does Vocabulary Affect Emotions?

**Matthew Shepherd**  
2248 Physics  
Do Distractions Affect Video Game Driving Scores?

**Omar Qureshi**  
2008 Mathematics  
Symmetry Line in Prime Numbers

**Shantalena Kirkland**  
1351 Chemistry  
Briggs-Rauscher Oscillating Reaction

**Tobi Aderibigbe**  
1302 Chemistry  
The Effect of Salt and Sugar on the Freezing Point of Water

**Udeh Ndukwe**  
1625 Electronics/Engineering  
Line Follower: A Zippy Robot That Senses Where to Go

**Yoly Rodriguez**  
1838 Health  
Is Our Food Poisoning Us?

**Horizon Science Academy – Cleveland**

**Middle School**

**Acaisa Brown**  
1108 Biochemistry  
The Effectiveness of Cleaning Products

**Aleiya Sawyer**  
1380 Chemistry  
Understanding Lactose Intolerance

**Cherise Diamond**  
1332 Chemistry  
I Scream, We Scream, We All Scream for Chemistry!!!!!!

**Dasia Johnson**  
1347 Chemistry  
Which Type of Lotion, Ointment, and Cream (Crème) Is the Best for Dry Skin?

**Destiny Jennings**  
1714 Environmental Science  
Solar Power Water Desalination

**Diesel Tanner**  
1403 Computer Science  
Can Gaming Help You Score Better in School?

**Heaven Brown**  
1315 Chemistry  
The Burning Question

**Jovontae Williams**  
1390 Chemistry  
Got Gas?

**Kellie Keaton**  
1715 Environmental Science  
Gas Producer

**Miricle Harris**  
2222 Physics  
Levitating Magnets

**Sarai Capps**

1008 Behavioral Science  
Brains or Shame

**Shatara Jordan**

1617 Electronics/Engineering  
Human Battery

**Vanezza Alvayero**

2002 Mathematics  
Solving the Rubik's Cube

**Horizon Science Academy – Columbus  
Elementary School****Amira Ibrahim**

1830 Health  
Is Soda an Enemy to Your Teeth?

**Asantewa Bonna**

1107 Biochemistry  
Do Parents and Their Children Share the  
Same Fingerprint Components?

**Elysa Kwaw**

1120 Biochemistry  
Color Your Mood

**Hussein Dirie**

1820 Health  
Orange Juice Madness

**Ilhaan Hashi**

2006 Mathematics  
Golden Ratio

**Marian Ali**

1306 Chemistry  
Candy vs. Pills

**Miganeh Drame**

1610 Electronics/Engineering  
A Safer Elevator

**Ruth Ajiboye**

2301 Zoology  
Who Wants to Be Beta Fish's Tank-Mate?

**Tristan Esteph**

1904 Material Science  
Get What You Pay For

**Horizon Science Academy – Columbus High  
School****Amanda Larocco**

2007 Mathematics  
Flipping a Coin: Is It Really Fair?

**Amenah Mohammad**

1020 Behavioral Science  
Which Genre of Music Helps People Study  
More?

**Belinda Ababio**

1801 Health  
Hyperpigmentation And Dark Spot Removers

**Doua Mohammad**

1364 Chemistry  
Does Fabric Softener Make Fabric More Flam-  
mable?

**Emmanuel Agyeman**

1401 Computer Science  
Ebola App

**Fatuma Ahmed**

1304 Chemistry  
Vitamin C

**Halima Abshir**

1602 Electronics/Engineering  
Sentinel - A Two-Sided Phone

**Ifeanyi Adizua - Williams**

2201 Physics  
How the Type of Paper Affects the Aerodynamics of Paper Airplanes

**Indiana Mccarthy**

1215 Botany  
Rose Lifespans in Food Coloring

**Jamelah Daboubi**

1328 Chemistry  
TRM Thermoreceptor Modifier

**Joseph Amoako**

2203 Physics  
Do Some Colors of M&Ms Crack Faster Than the Other?

**Josh Fingerhut**

1611 Electronics/Engineering  
Bike-Powered Light Bulb

**Nadifo Hashi**

1614 Electronics/Engineering  
How to Prevent Your iPhone Screen from Breaking

**Nana Anim-Boateng**

2204 Physics  
Can the Amount of Water Make the Pitch of Sound Change?

**Olivia Mellett**

1622 Electronics/Engineering  
DIY Paper Holder

**Samira Hassan**

1504 Earth and Space Science  
Airplane Seats That Do Not Invade Other's Space

**Sudi Yussuf**

1639 Electronics/Engineering  
On Airplane Efficiency: The Butterfly Wing

**Horizon Science Academy – Columbus Middle School****Asia Mohamud**

1021 Behavioral Science  
Does Your Sight Affect Your Taste?

**Dikchhya Khatiwoda**

1832 Health  
Does Eye Color Affect A Person's Ability to Identify Color in Low Light?

**Esther Quaye**

1372 Chemistry  
Shaking for Studs: Which Type of Water Is the Hardest?

**Jehannah Granger**

2307 Zoology  
Planaria and Magnetism

**Katharin Sigaran**

1221 Botany  
Does Osmosis Affect the Mass of a Raw Potato?

**Lebaba Kure**

2232 Physics  
Parachutes: Does Size Matter?

**Regina Mick**

1623 Electronics/Engineering  
What Makes the Best Conductor?

**Yusuf Matan**

1123 Biochemistry

The Effect of Substrate Concentration  
on the Activity of the Enzyme Catalase

**Horizon Science Academy – Dayton****Asante' Anderson**

1603 Electronics/Engineering

Infinite Energy Tech

**Brain Varga**

2253 Physics

Build a Gauss Rifle!

**Cihan Bagcioglu**

2207 Physics

How Fast Can the Last Ball Go?

**Fatimah Gula**

1826 Health

Location Of Seizures in the Human  
Brain and the Effects on the Body

**Fehmi Zengince**

1393 Chemistry

Food Chemistry

**Gulnara Sunnatcheva**

1384 Chemistry

Vitamin C Raw and Boiled

**Josalynn Thomas**

1035 Behavioral Science

Memory Mnemonics

**Matthew Bolden**

1006 Behavioral Science

Response Time of an Animal When  
Encountering a Human

**Maya Akhmedova**

2101 Microbiology

What Music Does Bacteria Enjoy the Most?

**Murad Aliyev**

1103 Biochemistry

Denaturing Proteins

**Senea Byrd**

1007 Behavioral Science

Face Recognition and Race

**Songul Mursalova**

1367 Chemistry

Crime Scene Chemistry- The Cool Blue of  
Luminal

**Tianna Black**

1005 Behavioral Science

It's Written All Over Your Face: The Science  
of Facial Expressions

**Vaughn Wyche**

1404 Computer Science

Writing a JavaScript Program to Measure  
Text

**Horizon Science Academy – Dayton****Downtown****Farida Aslanova**

1901 Material Science

Mysterious Water Rising

**Feruz Mamedova**

1912 Material Science

How to Make a Homemade Metal Detector

**Sultan Iskandarova**

1908 Material Science

Cooling Soda

**Zeynab Pashayeva**

1627 Electronics/Engineering  
Drawing Michelangelo

**Horizon Science Academy – Dayton  
Elementary School**

**Amir Riggins**

1028 Behavioral Science  
How Does the Brain Shift from Telling  
the Truth to Telling a Lie?

**Anthony Gladney**

1339 Chemistry  
Why Do Police Track Fingerprints?

**Landon Harden**

2221 Physics  
How Much Height to Loop the Loop?

**Michael King**

1909 Material Science  
Which Chocolate Will Melt Faster?

**Samir King**

2231 Physics  
Can Water Float on Water?

**Shaheed Thompson**

1225 Botany  
How Do Roots Grow When the Direc-  
tion of Gravity Changes?

**Horizon Science Academy – Denison  
Elementary School**

**Brandon Taylor**

2250 Physics  
Home Run

**Destiny Vass**

1387 Chemistry  
The Hair Facts

**Hailey Mauldin**

2235 Physics  
Mauldin’s Music

**Lilly Davis - Meadows**

1330 Chemistry  
Lip Crayon

**Nia Valentine**

1386 Chemistry  
The Calories

**Xailla Shultz**

2249 Physics  
Magic or Science

**Horizon Science Academy – Denison  
Middle School**

**Ashlyn Mcgonagle**

1913 Material Science  
How Much Can Eggs Hold?

**Kenaji Blevins**

1312 Chemistry  
Electrolysis of Water Experiment

**Skye Bostic**

1203 Botany  
Which Vitamin Makes Plants Grow Faster?

**Horizon Science Academy – Lorain**

**Alexis Otero**

1025 Behavioral Science  
Does Not Going to College Affect Your  
Ability To Test?

**Alisa Larges**

1355 Chemistry

What Effect Does Freezing Batteries  
Have on the Life-Span?

**Ariana Whiteman**

1844 Health

What Is the Influence of Color on Blood  
Pressure?

**Arianna Martinez**

1834 Health

Deterioration of Teeth

**Arianna Butcher**

1903 Material Science

What Fabric Wicks the Best?

**Austin Perez**

1628 Electronics/Engineering

Ultra Sonic Cleaning Robot

**Aylisa Grenald**

1114 Biochemistry

Is Soap Scrubbing Away Too Much???

**Beyza Ada**

1201 Botany

Beauty and the Beast

**Chantel Shannon**

1220 Botany

Does the Presence of Sunlight Affect  
the Amount of Carbon Dioxide Produced  
in a Plant During Respiration?

**De` Andre Clayton**

1322 Chemistry

Does Mint Actually Cool or Just Give a  
Sensation?

**Destinee Medina**

1018 Behavioral Science

Kids in Mind

**Elba Bracy**

1707 Environmental Science

Does Magnetism Affect Plant Growth?

**Elias Figueroa**

1112 Biochemistry

Photosynthesis And Respiration

**Emma Cornwell**

1325 Chemistry

Do All Liquids Evaporate at the Same Rate?

**Isabel Bonilla**

1106 Biochemistry

The Analysis of Albino Corn

**Jalicia Smalley**

1635 Electronics/Engineering

Open Sensorme

**Jaylene Santana**

1378 Chemistry

Antacid Potency

**Julissa Hernandez**

1345 Chemistry

Does Tea Stain Your Teeth?

**Justin Rosario**

1840 Health

Peanut Allergy

**Kierra Wilcoxson**

1128 Biochemistry

Do All Proteins Denature at the Same  
Temperature?



**Krystian Garcia**

2103 Microbiology

Hold On... Can You Hear the Bacteria?

**Kylie Huskey**

1713 Environmental Science

Are Gas Stations Polluting Our Soil?

**Matthew Deus**

1502 Earth and Space Science

The Deicing Effect

**Michael Watchorn**

1736 Environmental Science

Wind vs. Solar Energy

**Noah Bennett**

1805 Health

Effect of Garlic on Bacterial Growth

**Oleana Zepeda**

1226 Botany

Nutritious Banana Peels

**Olivia Alvarado**

1307 Chemistry

Glow Stick Project

**Omer Keles**

1716 Environmental Science

Global Warming or Global Warning

**Steven Hanna**

1613 Electronics/Engineering

The Power to Move

**Sydney Contreras**

1324 Chemistry

What Makes Ice Melt Faster?

**Tayidem Blaylock**

1807 Health

Are Dark Green Leafy Veggies Higher in Vitamin C Content Than Their Lighter Colored Counter Parts

**Taylor Wepler**

1388 Chemistry

Egg Deterioration

**Victoria Massa**

1122 Biochemistry

Cloudy with a Chance of Aspirin

**Viviana Ramos**

1374 Chemistry

Dialysis of a Solution in a Hypotonic Medium

**Horizon Science Academy – McKinley Park****Andrea Roldan**

1632 Electronics/Engineering

Simple Motor

**Andrew Taylor**

1636 Electronics/Engineering

Pneumatics

**Andrew Reyes**

1837 Health

Spectrophotometric Determination of Iron in Municipal Water

**Austin Reilly**

2244 Physics

Speed of Light in Jell-O?!

**Christian Ruiz**

1726 Environmental Science

Spectrophotometric Determination of Phosphate In Lake Michigan

**Dadviel Salas**

1634 Electronics/Engineering

Can You Build Circuits?

**David Garibay**

1825 Health

Indoor Air Quality

**Edgar De La Rosa**

1817 Health

What Activity Will Produce the Highest

Heart Rate?

**Guadalupe Manriquez**

1121 Biochemistry

Longer Lasting Avocados

**Gustavo Perez**

1723 Environmental Science

Spectrophotometric Determination of

Phosphate in Chicago River

**Ivan Cortez**

1814 Health

Spectrophotometric Determination of

Copper in Tap Water

**Jaime Lara**

1354 Chemistry

Spectrophotometric Determination of Iron

in Lake Michigan

**Mimi White**

1389 Chemistry

Burning Bubbles

**Rafael Gonzalez**

1011 Behavioral Science

Do Humans Move Straighter with or Without Sight?

**Yavuz Cengiz**

1109 Biochemistry

Does Exercise Effect Blood Glucose?

**Horizon Science Academy – Southwest****Berenice Sotelo**

1732 Environmental Science

Accelerate Rusting

**Carla Ballesteros**

1702 Environmental Science

The Investigation of Water Quality

**Carlos Quintero Escott**

1373 Chemistry

Removing Heavy Metals from Water

**Christian Roldan**

1633 Electronics/Engineering

Building a Solar-Powered Car

**Kelly Martinez**

1359 Chemistry

The Chemistry Behind Olive Oil Soap

**Leslie Garcia**

2217 Physics

Coins and Vinegar

**Oscar Perez**

1126 Biochemistry

Radiation Germination

**Salia Matheny**

1124 Biochemistry

Will Water or Vinegar Make Plants Grow Better?

**Horizon Science Academy – Springfield**

**Abigail Paul**

2241 Physics  
Paper Towel Strength

**Alantis Brock**

1314 Chemistry  
What Makes Ice Melt Fastest?

**Chrissandra Price**

1724 Environmental Science  
Go Green By Growing Green (How to Extract  
Energy from Plants)

**Deante Crockett**

1815 Health  
Eggsperiment

**Dezarah Gonzales**

1340 Chemistry  
How Do Different Types of Impurities in Water  
Affect How Fast the Water Evaporates?

**Faydra Price**

1218 Botany  
Genetically Modified Plants

**Jaleyana Reese**

1219 Botany  
Will a Bean Plant Survive in Salt Water?

**Jasmine De Bolt**

1331 Chemistry  
The Effect of Surface Temperature on  
Fingerprints

**Kiara Harris**

1344 Chemistry  
Chemistry of Food

**Mariana Barbour**

2208 Physics  
Static Electricity with Wool Sweater

**Michael Clayborne**

1809 Health  
Eating Iron for Breakfast

**Seth Paul**

1722 Environmental Science  
Solar-Powered Water Desalination

**Shay'onna Fuller**

1336 Chemistry  
What Liquid Makes Metal Rust Fastest?

**Tanajah Betts**

1806 Health  
Mold on Bread

**Tiffany Draper**

1206 Botany  
Effects of Energy Drinks on Plant Growth

**Zachariah Burch-Hyde**

1318 Chemistry  
Electrolyte Challenge

**Horizon Science Academy – Toledo**

**Alea Curtis**

1327 Chemistry  
Durability of Acetone Solutions

**Amanda Gillen-Ford**

1612 Electronics/Engineering  
Search and Rescue Team

**Andre Mccoy**

2236 Physics  
Building a Gauss Rifle

**Bashshar Haris**

1210 Botany  
Effects of Ultraviolet Light Exposure on Pond  
Water Algae

**Cache Mckitric**

1835 Health  
How Wrappings Spoil Foods

**Cameron Lamb**

1353 Chemistry  
From Dull to Dazzling

**Corien Harvey**

2223 Physics  
Measuring the Speed of Light

**Dontae Williams**

1391 Chemistry  
The Power of Electrons

**Fateh Aameera Haris**

1828 Health  
Effect of Music on Post Recovery Exercise

**Gulsu Eldek**

1821 Health  
Effects of Caffeine on Daphnia's Heart Rate

**Keith Skinner**

1222 Botany  
Craving Caffeine

**Mercan Yalvac**

2109 Microbiology  
Germs on Your Cellphone

**Patrick Pettaway**

1836 Health  
How Does Peripheral Vision Work and How  
Well Is Yours?

**Rochelle Bauer**

1309 Chemistry  
Oscillating Reactions

**Sherron Gillespie**

1711 Environmental Science  
Heat, Keep, Cool-How Evaporation Affects  
Heating and Cooling?

**Tamara Gillen**

1337 Chemistry  
Tasty Evaporation

**Horizon Science Academy – Youngstown****Antwon Slocum**

1729 Environmental Science  
Wind Turbine

**Benjamin Harris**

1211 Botany  
Will Compost Make Grass Stay Alive Longer  
Than Fertilizer?

**Benjamin Torres Jr.**

1841 Health  
Do Student Athletes Have Better Lung  
Capacity Than Non-Student Athletes?

**Carolina Otero**

1368 Chemistry  
Which Material Does Acetone Affect More  
Wood, Carpet, or Tile?

**Civon Rowe**

1030 Behavioral Science  
Are Dogs Colored Blind?

**Cordell Gregory**

1209 Botany  
Will A Spider Or Philodendron Grow Better  
Under Natural or Artificial Light?

**Derasjah Brown**

1316 Chemistry

What Substance Is Most Effectively for  
Cleaning Teeth?

**Dynasti Boykin**

1313 Chemistry

What Acids Affect the Rate of Corro-  
sion?

**Elizabeth Weisinger**

1843 Health

Getting Taller

**Hope Crawley**

1326 Chemistry

Does the Flavor of Ice Cream Affect  
How Fast the Ice Cream Melts?

**Jack Armstrong**

2004 Mathematics

Which 3-D Geometrical Shape Reflects  
the Most Light?

**Javott Dawson**

2304 Zoology

What Materials Melt Ice Fastest?

**Kira Grimes**

2309 Zoology

What Egg Type Is the Strongest?

**Naudia Beck**

1310 Chemistry

Which Frozen Dessert Melts Slowest  
Ice Cream, Frozen Yogurt, or Sorbet?

**Paris Wilson**

1845 Health

Do Different Types of Music Affect a  
Person's Heart Rate?

**Quinntrell Jenkins**

1506 Earth and Space Science

Can Flies Grow from Decaying Bananas?

**Shayla Berger**

1311 Chemistry

Does the Amount and Type Affect How Fast a  
Volcano Will Erupt?

**Tyshawn Skinner**

1382 Chemistry

Naked Egg

**Indiana Math and Science Academy – North****Aniah Holland**

1615 Electronics/Engineering

Which Diameter of Lead Will Have the Greatest  
Reaction When Making a Light Bulb?

**Christopher Williams**

1637 Electronics/Engineering

Solar Energy Supercapcitor

**Diamond Berryhill**

1004 Behavioral Science

Left or Write

**Jerimyah Mundy**

1023 Behavioral Science

Can People Memorize Numbers While Being  
Distracted?

**Jumanah Muhammad**

1022 Behavioral Science

Which Gender Has a Better Memory?

**Kevin Zeigler**

2255 Physics

Speed of Light

**Levi Stubbs**

1510 Earth and Space Science  
Measure Atmospheric Reflection, or  
“Earth Shine”

**Madison Guyse**

1827 Health  
Whose Mouth Is Cleaner: Dogs or  
Humans?

**Makaila Shay**

1917 Material Science  
Sun Art

**Marcella Arguello**

1701 Environmental Science  
Plant Growth

**Maria Diaz Gomez**

1819 Health  
Cardiovascular Disease

**Noah Cooper**

1812 Health  
Antibacterial Hand Soap vs. Hand Sanitiz-  
er: What Should You Use?

**Rajeni Jones**

1348 Chemistry  
Light It Up

**Samuel Iwu**

2225 Physics  
Cellphone Spectrophotometer

**Solei Jones**

1014 Behavioral Science  
Lip Gloss Boss

**Stephen Iwu**

1616 Electronics/Engineering  
The Effect of Extreme Temperature on Battery  
Life

**Ziair Davis**

1329 Chemistry  
pH of Water

**Indiana Math and Science Academy –  
South****Aaron Sosbe**

1731 Environmental Science  
Sink or Float

**Jason Strain**

1034 Behavioral Science  
Does Chewing Gum Make You Smarter?

**Jazmine Lee**

1911 Material Science  
Which Burns Faster?

**Nyree Carpenter**

1009 Behavioral Science  
Do the Eyes Have It?

**Saquella London**

1016 Behavioral Science  
Taste the Rainbow

**Indiana Math and Science Academy –  
West****Adrienne Marquam**

2234 Physics  
Duct Tape

**Aleena Soomro**

2311 Zoology  
Preference of Food Colors

**Alyssa Riley**

1377 Chemistry  
Expensive Orange Juice

**Carmentina Vidal**

1735 Environmental Science  
Which Paper Towel Absorbs the Most?

**Erianaj Roach**

1725 Environmental Science  
What Is the Effect of Temperature as Water Freezes?

**Franklin Pineda**

2243 Physics  
What Brand of Battery Lasts the Longest?

**Jaleya Edwards**

1111 Biochemistry  
Apple a La Carte

**Jaqueline Beltran**

1705 Environmental Science  
What Is the Effect of the Size of a Bottle on the Formation of a Cloud?

**Micah Jeter**

1346 Chemistry  
The Effect of the Temperature of Water on Dry Ice

**Omar Terrazas**

2252 Physics  
Homo-Polar Motor

**Reynaldo Serrano**

1381 Chemistry  
Which Liquid Stains the Most?

**Sarah Muro**

2238 Physics  
What Hairspray Holds Best?

**Savanna Neikirk**

2240 Physics  
Strength Over Magnets

**Victoria Hill**

1115 Biochemistry  
In Which Wrapping Will a Sliced Apple Stay Fresh the Longest While in the Refrigerator?

**Lorain Community Middle**

**Londyn Grieve**  
1342 Chemistry  
Matchbox Rocket Heads

**Lorain Prep Academy**

**Destiny Ramos**  
1027 Behavioral Science  
What Happens When Animals Are Given Similar and Different Treatments?

**Jordyn Moye-Sledge**

1624 Electronics/Engineering  
What Makes Ferris Wheel Move?

**June Mckinney**

1507 Earth and Space Science  
Why Does the Moon Create the Tides?

**Katelin Jones**

1213 Botany  
How Plants React to the Sun

**Nichole Cooper**

1813 Health  
The Kidney

**Tianna Spraggins**

1509 Earth and Space Science

How Do the Stars And Planets Help the Earth and How Do They Form?

**Triniti Hohn**

1829 Health

How Do Drugs Affect an Unborn Baby?

**Madison Community Elementary****Arianna Soldan**

1383 Chemistry

Soda And Soda

Menlo Park Academy

**Alexander Masgras**

1360 Chemistry

Which Acid Will Create the Largest Reaction in a Baking Soda Volcano?

**Alexander Khoretonenko**

1833 Health

Does Stretching Affect Grip Strength?

**Alexia Siehl**

1918 Material Science

Which Type of Solution Will Grow the Largest Alum Crystal?

**Boris Khoretonenko**

1350 Chemistry

What Is the Best Ratio of Water, Ice, and Salt to Lower Temperature?

**Drew Gibson**

2219 Physics

Which Type of Scooter Wheel Has the Greatest Effect on Speed?

**Katie Munro**

1217 Botany

Does the Orientation of a Plant Affect the Plant's Growth?

24

**Lillian Ross**

1029 Behavioral Science

Which Vegetable Is the Most Satisfying for a Guinea Pig?

**Megan O'Donnell**

1721 Environmental Science

Cleaning Oil from Feathers

**Valerie Laurianti**

2233 Physics

Which Angle of Push-Off Best Propels a Swimmer to a Furthest Distance?

**Michigan Math and Science Academy****Alexander Hardwell**

2005 Mathematics

Coin Exchange Problem: Chicken Nugget Theorem

**Aryanna Gray**

2308 Zoology

Does Light Affect the Coloration of Fish?

**Bianca Torcuator**

2314 Zoology

Egg Shell Project

**Bryan Banaylo**

1002 Behavioral Science

Incentives: Do They Influence Test Scores?

**Dakota Kindred**

2230 Physics

Persist to Resist

**Elias Kashat**

1618 Electronics/Engineering

Power of Food



**Gabrielle Bagtas**

1001 Behavioral Science  
Does Age Affect Memory?

**Grace Tate**

1224 Botany  
Does Radiation Affect Plant Growth?

**Ileana Bell**

1003 Behavioral Science  
The Smile Test

**Joseph Woodall**

1392 Chemistry  
Big or Small Pieces: Which React Faster?

**Justin Wilton**

2010 Mathematics  
Circular Reasoning

**Mason Brudzinski**

1607 Electronics/Engineering  
Development of a Low-Cost Aggregate  
Imaging System

**Omar Khanfar**

1349 Chemistry  
Which Hard Candy Will Provide the  
Largest Diet Coke Explosion?

**Pamela Smith**

2009 Mathematics  
6 Color Theory

**Quintin Andrews**

2003 Mathematics  
Can Parallel Lines Diverge?

**Ridwan Hayder**

1012 Behavioral Science  
Does Music Affect Concentration?

**Tim Deleo**

1609 Electronics/Engineering  
What Light Bulbs Can Lit Up By A Plasma Ball  
Current Going Through The Human Body?

**Tori Palka**

1026 Behavioral Science  
Bystander Effect

**Vincent Wilton**

1638 Electronics/Engineering  
A Swinging Personality

**Milwaukee Math and Science Academy****Diamond Coleman**

1810 Health  
Tooth Decay

**Gnolya Duncan**

1110 Biochemistry  
Onion DNA

**Jaylen Ammons**

2202 Physics  
Gauss Rifle - Linear Magnetic Accelerator

**Lachante Sanford**

1727 Environmental Science  
Levels of Lead in Water from New and Old  
Buildings

**Nadia Blockton**

1706 Environmental Science  
pH Levels in Water

**Patricia Adams**

1301 Chemistry  
Column Chromatography

**Sahara Ali**

1802 Health  
How Does Mold Form

**Vera Gaines**  
1208 Botany  
Hydroponics

**Minnesota Math and Science Academy**

**Hamdi Bare**  
1703 Environmental Science  
I'm Trying to Breathe Here! Dissolved Oxygen  
vs. Temperature

**Ko Meh**  
1717 Environmental Science  
How Does Soil Affect the pH of Water?

**Nuh Misirli**  
1363 Chemistry  
Which Substances Will Save Your Water  
Damaged Phone?

**Noble Academy – Cleveland**

**Beyza Efe**  
2215 Physics  
Rock Candy Crystals

**Daniel Clemmons**  
1323 Chemistry  
Does Tea Stain Your Teeth?

**Emon Brown**  
1902 Material Science  
Can Natural Hair Dye Come Out in 5 Washes?

**Ivana Palmer**  
1369 Chemistry  
Testing the pH And Alkalinity of Personal  
Care Products

**Kaden Hales**  
1503 Earth and Space Science  
Frozen in Time

**Mahrreon Greer**  
1712 Environmental Science  
Composition Chamber

**Michael-Jade Greene**  
1905 Material Science  
Paper Towel Absorbency

**Nadia Cook**  
1205 Botany  
Caffeine's Effect on Plant Growth

**Savannah Gilliham**  
1338 Chemistry  
The Effect Of Temperature On Reaction  
Time

**Taiyana Elzy**  
1334 Chemistry  
Homemade Soap vs. Store Brand Soap

**Noble Academy – Columbus**

**Abderrazzak Habroune**  
1343 Chemistry  
Water Depth and Pollution

**Ali Latif**  
1356 Chemistry  
Testing Ground Level Ozone in Indoor  
Environments

**Ayah Mesbah**  
1216 Botany  
The Effect of Sugar and Salt on Lentil Bean  
Growth Rate

**Davon Fair**  
2305 Zoology  
Forensic Hair and Fiber Analysis of Differ-  
ent Species

**Hasan Kucuker**  
1621 Electronics/Engineering  
Effects of the Number and Size of Blades of  
a Wind Turbine on Electrical Output

**Jimmy Nguyen**

1719 Environmental Science  
Investigate How Adding Salt to a Microbi-  
al Fuel Cell Changes Its Power Output

**Kelvin Konadu**

1620 Electronics/Engineering  
Battery Power

**Mariam Mohamed**

1019 Behavioral Science  
Which Hand Is More Sensitive?

**Mohamed Jama**

1212 Botany  
The Effect of Soda on Lima Bean Plant  
Growth

**Naima Jama**

1116 Biochemistry  
The Determination of Similar DNA  
Sequences through Agarose Gel Electro-  
phoresis

**Nancy Freeman**

1207 Botany  
Coffee or Water?

**Nastexo Abdullahi,**

1601 Electronics/Engineering  
Characterization of the Solar PV Panels  
for Maximum Power Output Capture

**Omar Ibraheem**

2104 Microbiology  
The Effect of Crude Oil on the Biodiversity  
of an Aquatic Environment; Simulate an  
Environmental Change

**Tajah Alkhalifa**

1104 Biochemistry  
Separation of Hemoglobin from Vitamin  
B12 By Gel-Filtration Chromatography

**Zaid Bader**

2206 Physics  
Measuring Light Speed

**Old Brooklyn Community Elementary****Cleopatra Osborne**

1626 Electronics/Engineering  
How to Make a Simple Motor

**Old Brooklyn Community Middle****Amadalis Davis**

2214 Physics  
Ice Age Melt Down

**Anthony Bencina**

2211 Physics  
Hoops

**Arieliz Figueroa**

2216 Physics  
The Amazing Egg Drop

**Hailey Woodall**

2254 Physics  
Does Size Matter?

**Jeremy Senal**

1916 Material Science  
How Durable Are Paper Towels

**Kayla Earnhart**

1333 Chemistry  
Fiery Fabrics

**Ruthie Sasso**

1379 Chemistry  
Electrophoresis

**Parma Community High****Jessica Billick**

1605 Electronics/Engineering  
Trusses: The Effect Of Supports

### **Parma Community Middle**

#### **Andrew Lampa**

1910 Material Science  
Metal Reactivity

#### **Daniel Przybysz**

1402 Computer Science  
Making Stalactites with Different Chemicals

#### **Kyle Pekar**

2242 Physics  
Which Armor Is the Best?

#### **Molly Pekar**

1370 Chemistry  
Browning Apples

#### **Nathan Taras**

1385 Chemistry  
Electrolytes

#### **Nicholas Kindrat**

2229 Physics  
Does the Mass of an Item Effect the Distance It Travels When Launched from A Catapult

### **Puritas Community Middle**

#### **Kristen Oestreich**

1024 Behavioral Science  
Is Sensitivity Heightened on Your Dominant Side?

### **Quest Charter Academy – Peoria**

#### **Chynna Bell**

2210 Physics  
Does Temperature Impact Density?

#### **Ciara Campbell**

1319 Chemistry  
Which Type of Soap Is Best for Skin?

#### **Joshua Romain**

2245 Physics  
Does Particle Size Impact the Flow Rate?

#### **Kayla Mendoza**

2105 Microbiology  
Which Onion Will Show the Best DNA?

#### **Kaylee Munter**

2237 Physics  
Which Brand Is Truest to Its Colors?

#### **Mariah Hopson**

2224 Physics  
Does Temperature Impact the Bounce of a Ball?

#### **Maryjane Spangler**

1733 Environmental Science  
Removing Water from Oil

#### **Mohammed Alashqar**

2001 Mathematics  
Which Formula Is the Most Accurate for Estimating the Volume of an M&M Candy?

#### **Rico Garcia**

2218 Physics  
So Many Trusses!

#### **Ryan Johnson**

2226 Physics  
What Materials Block Radio Waves?

#### **Xavier Vital**

1127 Biochemistry  
Which Drink Has the Most Electrolytes?

**Zoe Kirksey**

1352 Chemistry

How Do Acids Affect the Rate of Corrosion?

**Science Academy of Chicago****Arif Soydan**

2312 Zoology

The Effect of Temperatures on Crickets  
Oxygen Usage?**Ayse Cavus**

1808 Health

Measuring the Amount of Tar in Cigarettes

**Aysesule Gulsen**

1906 Material Science

Keep Your Body Warm

**Bugra Canbolat**

2303 Zoology

The Effect of Temperature on Crickets  
Carbon Dioxide Usage?**Daniel Mitev**

1718 Environmental Science

Heavy Metals and Aquatic Environments

**Esra Taysever**

2251 Physics

Radiation in Different Types of Electronic  
Devices.**Hatice Canbolat**

2102 Microbiology

Do Synthetic or Natural Pain Relievers  
Affect Bacteria More?**Ibrahim Arifi**

2205 Physics

Comparing Thermal Insulation

**Kubra Sude Taysever**

2313 Zoology

Testing Daphnia Heartbeat with Different  
Types of Water**Layan Dhafer**

1818 Health

How Age Affects Heart Rate During Exercise

**Neslihan Kahraman**

1831 Health

How Much Caffeine Is Inside Your Coffee or  
Tea?**Sadi Keskes**

2228 Physics

Does Temperature Affect Magnetic Field?

**Safa Mohammed**

1914 Material Science

Making a Conductive Gel from Organic  
Materials**Veli Serbet**

2108 Microbiology

Which Toothpaste Is the Most Effective in  
Blocking Bacterial Growth?**Yusuf Turhanogullari**

1734 Environmental Science

How Does Dissolved Oxygen Differ in Different  
Locations of Lake Michigan?

**Zaid Usman**

1842 Health

How Do Different Drinks Affect Tooth Enamel?

**Westpark Community Middle**

**Caleb Moore**

1365 Chemistry

Chip Bag Inferno

**Devlin Sheehan**

1031 Behavioral Science

Video Games vs. Memory

**Eriana Browning**

1317 Chemistry

Colorful Flames

**Kaitlyn Buncher**

1501 Earth and Space Science

Do All Liquids Evaporate at the Same Rate

**Kate Barrett**

2209 Physics

How Does the Wind Speed Affect the Lift of a Plane?

**Maggie Kundla**

1015 Behavioral Science

Did You Hear That?

**Chicago Math and Science Academy**

**Eric Catalan, Kelvin Sherman**

138-Printing at Its Finest

**Kingley Chukwudi,**

21-Binomials With Pascal

**Lance Velez, Gabe Ojeda**

17-How Much Does the Ball Travel?

**Roshaan Siddiqui, Abenazer Mekete**

80-Sport for the Mind

**Gateway Science Academy – Fyler**

**Brandon Sidenstricker,**

92-Magnetic Linear Accelerator

**Rhiannon Hausel,**

107-Singing Glasses

**Horizon Science Academy – Cleveland**

**High School**

**Alexandra Watley,**

56-Smashing Thermit Reaction

**Aneesah Hill,**

117-Wooden Blocks

**Arika Hayes,**

90-Surface Tension

**Asia Murchison,**

84-Daphnia Necklace

**Carl Rivers,**

125-Snap Circuits

**Corey Rogers,**

54-Newton's Beads

**Damien Turner,**

119-K'nex

**Del-Marcus Goolsby,**

141-Maglev Train

**Dewaine Billingsley,**

94-Cartesian Diver

**Dezmon Wade,**

45-Oh No Not Foil!

**Edward Deleon,**

122-Bed Of Nails

**Erick Osorio, Michaela Durette**

86-Windbag - Bernoulli Principle

**Essynce Mitchell,**

123-Building Bricks

**Fareed Abdullah,**

62-Safe Swimming with Sodium

**Gabriel Clemmons,**

64-Hand Boiler

**Gregory Beauchamp Rodriguez,**

121-Magformers

**Hudaifah Pennington,**

110-Battery Train

**Kevin Goolsby,**  
81-T-Bot li Robotic Arm

**Keyana Leonard,**  
69-Fun Dry Ice Crystal Ball Bubble

**Keyana Leonard,**  
22-Nine Men Morris Game

**Liam Rafferty,**  
71-Fun Crazy Cool Reaction

**Rashell Anderson,**  
72-Indicator Sponge

**Robert Rogers,**  
143-Hovercraft

**Selena Bostick,**  
144-Spillnot

**Tai'veon Lindsey,**  
148-Sound Hose

**Tyjuan Black,**  
149-3D Mirascope

**Tyree Lee Gonzales,**  
150-Newton's Nightmare - Lenz's Law

**Horizon Science Academy – Cleveland  
Middle School**

**Aleja Archie,**  
87-Color Changing Milk

**Alexya Foster,**  
57-Bubbling Lava Lamp

**Jaylin Jackson,**  
68-Bouncing Bubbles  
32

**Makaila Hauser, Barrick Wilson**  
14-Mathemagicians

**Maricela Anderson, Jalia Tyner- Gaston**  
12-Draw Without Raising Your Hand.

**Mekdes Shiferaw,**  
105-Walking On Broken Glass Barefoot

**Rysheen Sharp, Miranda Crump**  
108-Inertia

**Horizon Science Academy – Columbus  
Elementary School**

**Idil Ali,**  
38-Matchstick Games

**Kofoworola Sholesi,**  
20-How Many Times Can We Fold A  
Paper?

**Zakia Essa, Ahlam Ahmed**  
77-Fun Crazy Boo Bubbles - Dry Ice  
Smoke Bubbles

**Horizon Science Academy – Columbus  
High School**

**Ali Daboubi, Zakaria Abdi**  
52-Water Proof Of Pythagorean Theorem

**Brady Sayre,**  
59-Red Cabbage Indicator

**Christina Amnathphonthip, Xafsa  
Aden**  
128-Puzzle Cube

**Don Cing, Nimco Mohammed**  
97-Air Cannon



**Fartun Mahamud, Abeba Fesseha**  
63-Particle Movement In Milk

**Karim Aguado,**  
24-Algebra Tiles

**Tyler Webb, Kevin Ansong**  
83-Energy Bike

**Horizon Science Academy – Columbus  
Middle School**

**Alusine Bayorh, Michelle Arhin**  
112-Playground Project

**Fatuma Abdullahi, Kedawit Shishay**  
111-Playground Project

**Immanuelle Nixon,**  
113-Playground Project

**Horizon Science Academy – Dayton**  
**Asante` Anderson,**  
49-Freer Tile Puzzle

**Ashley Greg,**  
48-Building Bridge

**Jasmine Middleton,**  
101-Newtonian Demonstrator

**Jasmine Middleton,**  
32-Solar Hot Dog Cooker

**Horizon Science Academy – Dayton  
Downtown**

**Ilyaz Iskandar,**  
36-Irreducible Trees of Size N Equals 10

**Kamren Smith,**  
25-Demonstrate And Prove That  $1=2$

**Lorenzo Mcwhorter,**  
15-Geometry & Billiards

**Sebastian Hitchcock,**  
137-Tornado

**Horizon Science Academy - Dayton  
Elementary**

**Amir Riggins, Samir King**  
51-Origami

**Kylah Edwards, Anthony Gladney**  
19-Patterns For Multiplication

**Horizon Science Academy – Lorain**  
**Ivan Zepeda,**  
67-Dissolving Paper

**Kaitlyn Boyd,**  
26-Hanoi Towers

**Leaisha Shannon,**  
140-Magical Movement

**Olivia Bratulic, Camarea Snipes- Thom-  
as**  
10-Pythagoras Tree

**Stacey Barron,**  
147-How Does Laser Light Bounce Off of  
the Surface of the Water Marbles

**Stephanie Barbour, Sydney Contreras**  
5-Math Shows and Tricks

**Vanessa Dugas, Oleana Zepeda**  
152-Water Benders

**Horizon Science Academy – Southwest**

**Cristobal Calderon,**  
85-Giant Alcohol Cannon

**Gabriel Gonzales,**  
65-Polyurethane Foam

**Ivan Barajas,**  
134-Can Crusher

**Jasuah Vaughn,**  
135-Flying Ping Pong Ball

**Horizon Science Academy – Springfield**

**Juliana Barbaur,**  
28-Finger Multiplication

**Kylah Spencer, Nayr Henry**  
70-Cloud in a Bottle

**Shataira Davis-Young,**  
145-Leak Proof Bag

**Tyrelle Devault,**  
151-Marshmallow Masher

**Horizon Science Academy – Toledo**

**Alyssa Mays,**  
58-Disappearing Water

**Arianna Muniz, Orchid Mckinney**  
115-The Design Process-Puzzle Cube  
Challenge

**Dushaun Mothershed,**  
88-Eating Nails For Breakfast

**Hayden Champnoise,**  
66-CO2 Fire Extinguisher

**Javier Buenavista,**  
124-Ferrofluid

**Miara Carpenter,**  
78-Best Way to Clean an Oil Spill

**Sonny Molten,**  
73-Dry Ice Color Show

**Terrell Green,**  
75-Genie In A Bottle

**Zachary Wilson, Austin Landin**  
114-PLTW Inventor

**Horizon Science Academy McKinley Park**

**Emilio Mendez, Kevin Franco**  
42-Mathematics and Chess

**Julisa Rodriguez, Cynthia Luna**  
27-Amazing Magic Trick

**Horizon Science Academy Southwest  
Chicago**

**Ashley Lazaro,**  
47-Tangram

**Kayla Allen,**  
23-Math Magic

**Horizon Science Academy-Belmont**

**Jasmine Jones, Dylan Figueredo**  
31-Soma Cubes

**Ladi Figueredo, Dakari Thomas**  
18-Bubble Shapes from 3D to 4D

**Horizon Science Academy-Cincinnati**

**Jenika Macias, Kayla Gerald**  
30-Pascal's Triangle Number Patterns

**Rashawn Lee, Kushi Abraham**  
8-Interesting Matchstick Puzzles

**Indiana Math and Science Academy – North**  
**Amariah Hurt,**  
139-Van Degraaf Generator

**Chedan Moore,**  
60-Yellow Blue Switcheroo

**Dulce Zagal- Garcia, Allania Picket**  
44-Building A Geodesic Dome, Maya Math

**Ian Jiles, Saulo Souza**  
98-Pressure Puller

**Latia King,**  
104-Hand Generator

**Indiana Math and Science Academy – South**  
**Daryka Johnson,**  
61-Cleaning Pennies

**Devauna Washington,**  
133-Creation Of Foam

**Jaden Jamison, Carlos Servin**  
34-Solutions to Rubik's Cube:

**Sterling Smith Jr.,**  
74-Electrochemical Cell Conversion

**Indiana Math and Science Academy – West**  
**Devin Bryant,**  
55-Anti-Gravity Mirror

**Edward Schneider,**  
120-Plasma Globe

**Isaiah Anderson,**  
100-Apple Drop

**Jonathon Bethancourth, Micah Jeter**  
29-Ames Room

**Raul Augustin,**  
89-Smoke Ring

**Tamarra Fuentes, Karma Chappell**  
4-50 States Game

**Michigan Math and Science Academy**  
**Adam Khanfar,**  
53-Card Tricks

**Ayanna Lawson,**  
91-Rotational Inertia Set (Disc)

**Ciara Mitchell,**  
93-Standing Wave

**Diamond Henderson,**  
95-Super-Flex I-Beam

**Domnique Diamond,**  
96-Asterism - Hypnotic Pendulum

**Imtihan Chowdkury,**  
35-Sum of Powers of 2

**Kennedi Harris,**  
102-Polarizer Demonstrator

**Lataijah Ford,**  
103-Rotational Inertia Wands

**Mable Hearn,**  
118-Solar Robots

**Messiahtruss Johnson,**  
106-Levitating Board

**Michigan Math and Science Academy**  
**Horizon Science Academy – Cleveland**  
**High School**

**Zariah Bridges, Cameron Bray**  
136-Candle Car- Reversible Thermoelectric  
Generator

**Milwaukee Math and Science**

**Fredrick Smith,**  
40-I Can Guess the Number in Your Head

**Jaramogis Denton,**  
33-Prove That “ $1 = 2$ ”

**Minnesota Math and Science Academy**

**Abdikhaliq Aden,**  
116-Simple Electric Motor

**Mohamud Bule,**  
82-Fuel Cell Car

**Shukri Jama, Asiya Abdi**  
146-Mixing Color Apparatus

**Thea Gilsrud, Hamdi Ali**  
76-Elephant Toothpaste

**Noble Academy – Cleveland**  
**China Williams, Reagan George**  
79-Hydraulic arm

**Imari Warfield, Devin Reed-Bennings**  
131-Arduino project

**Mehmet Fesli, Nathanael Ahiagbedey**  
129-Arduino-Kinect Project

**Desiree Hunter, Taje Jones**  
46-Where Does Pi Come From?

**Malica Washington, Qaasim Abbas**  
13-Are You A Golden Person?

**Noble Academy Columbus**  
**Omar Umayma, Davon Fair**  
9-3d Paper Engineering

**Zaid Bader, Hasan Kucuker**  
1-Origami-Paper Architecture

**Quest Charter Academy – Peoria**  
**Lindsay Spiegelmeyer,**  
16-The Locker Problem or Magic Number

**Austin Worley, Jaime Sivongsay**  
126-Laser Manufacturing

**Caleb Gaston,**  
132-Animated Peg Board

**Nolan Taylor, Alexa Uriostegui**  
127-Robotic Toys

**Steontae Linwood, Keanna Stokes**  
130-3D Modeling

**Science Academy of Chicago**

**Ari Fiskin,**  
50-Pick’s Theorem

**Efe Caputlu, Saif Athca**  
43-Napier’s Bones ( World’s First Calculator)

**Erkam Isbilir,**  
41-Metal Puzzels

**Gulnur Bora, Dilara Soydan**

99-Makey Makey

**Hassan Ali,**

39-Wooden Multiplication

**Hayda Bilgin,**

37-Hypsometer

**Mehmet Ates, Ehat Duman**

11-Topological Ropes

**Meliha Aycicek,**

142-Flying Nemo

**Salma Sajjad,**

7-Absolute Value Using Number Line

**Saniye Uslu, Hatice Ucan**

109-Wimshurst Machine - Franklin's Bell

**Selma Ucan,**

6-Math and Chess

**Tuba Korkmaz,**

3-Stick Stool That Can Hold Up to 5 Pounds!

**Vera Kartal, Sakina Kanji**

2-Abacus (Add,Subt,Mult&Div)

**1002 - Gateway Science Academy of St.**

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JD Putnam

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Zain Akbar  
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Wulf Mech  
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**1021 - Indiana Math and Science  
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**1041 - Horizon Science Academy-  
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**2005 - Horizon Science Academy Lorain**

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Ruben Verdugo  
Saulo Sauza

**2009 - Indiana Math and Science  
Academy North**

Benji Cordoba  
Norberto Moran  
Ronald Srygler





## Judges

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Thank you to all of our judges!

Abul Arif - Cleveland Clinic

Ahmad Khalil - Case Western Reserve  
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Alice Valentin-Torres - Cleveland Clinic  
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Allie Langwald - Concept Schools

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Analisa Difeo - Case Western Reserve  
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Anant Madabhushi - Case Western Reserve  
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Angel Reyes - Case Western Reserve  
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Angela Wasilewski - Zaremba Management

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Arnab China - Cleveland Clinic

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Basem William - University Hospitals Case  
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Charlie Androjna - Cleveland Clinic

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Crystal Fries - Concept Schools

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David Adelstein - Cleveland Clinic

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David Ferro - Concept Schools

David Lust - Case Western Reserve University

David McDonald - Case Western Reserve University

David Takacs - Concept Schools

Deanne Nowak - Gilmour Academy

Dirk Hubmacher - Cleveland Clinic

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Dorr Dearborn - Case Western Reserve University

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Gabriela Voskerician - Case Western Reserve University

Ganapati Mahabaleshwar - Case Western Reserve University

Genny Diaz - Concept Schools

George Kikano - Case Western Reserve University

Gwendolyn Kinebrew - Cuyahoga Community College

Hailey Vest - Concept Schools

Hamza Balci - Kent State University

Hannah Bond - Renhill Group

Hua Lou - Case Western Reserve University

Ian Rice - Concept Schools

Jagjit Singh - Cleveland State University

Janette Gallup - Concept Schools

Jean Eastman - Case Western Reserve University

Jeff Logan - Constellation Schools

Jeffrey Jaroscak - ESC of Lake Erie West

Jenise Snyder - Ursuline College

Jenn Boucher - Concept Schools

Jenna Bachmayer - Concept Schools

Jennifer May - Constellation Schools

Jerry Silver - Case Western Reserve University

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John Gale - Cleveland Clinic  
John Harkness - ASMI  
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Joseph Bianchini - Cuyahoga Community College  
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Judith Johnston - Imani Graphics  
Judy Varn - Self Employed  
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Kate Glenn - Concept Schools  
Kath Bogie - Case Western Reserve University  
Kathleen Sebastian - Constellation Schools  
Katie McNeill - Paulo Products  
Katie Meder - Concept Schools  
Kaushik Ghosal - Rexceptor  
Kelly Christian - Lawrence School Assessment Center & Daily Behavioral Health  
Kelly Miller - Concept Schools  
Kimberly Elliott - Advanced Solutions for Education  
Kirby Meacham - Meacham Company  
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Lana Pollock - Case Western Reserve University  
Laurel Tombazzi - Eastern European Congress of Ohio  
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Lisa Zollos - Constellation Schools  
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Michael Fu - Case Western Reserve University

Michael Wolfert - Graftech

Michele Portelli - Concept Schools

Mikhail Khoretonenko - Lakeland Community College

Miklos Gratzl - Case Western Reserve University

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Oguzhan Yildiz - Concept Schools

Omar De La Cruz Cabrera - Case Western Reserve University

Paul Herdeg - Volunteer

Pieter Dehaseth - Case Western Reserve University

Pingfu Feng - Case Western Reserve University

Polly Phillips-Mason - Case Western Reserve University

Prateek Mendiratta - Cleveland Clinic

Qingzhong Kong - Case Western Reserve University

Qiuyun Chen - Cleveland Clinic

Raed Dweik - Cleveland Clinic

Ramy Masroujeh - Louis Stokes VA Medical Center

Rehan Waheed - CHRP/BHP/VA/CWRU

Renee Villaire - NRCS

Reyhan Demirci - Concept Schools

Robin Jump - Cleveland Veterans Affairs Medical Center

Rosa Madison - Constellation Schools

Rosemary Mcguckin - Concept Schools

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Samantha Stromquist - Concept Schools

Sanjay Anand - Cleveland Clinic

Sarah Poling - Concept Schools

Shannon Mitchell - Concept Schools

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Sharon Washington - Virtual Schoolhouse

Sherry Simon - Concept Schools

Shivani Patel - Case Western Reserve University- Case Comprehensive Cancer Center

Sinziana Seicean - Heart and Vascular Institute

Sophia Nelson - Concept Schools

Sreedevi Goparaju - Cleveland Clinic foundation

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Stephen Mack - Cleveland Clinic  
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Susan Burden-Gulley - Case Western Reserve University  
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Veronica Getsy - Concept Schools  
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Warren Alilain - MetroHealth Medical Center and Case Western Reserve University SOM  
Wenquan Zou - Case Western Reserve University  
Xiaoyong Fu - Case Western Reserve University  
Xin Yu - Case Western Reserve University  
Ya Chen - Case Western Reserve University  
Yana Sandlers - Cleveland State University

Yazan Dweiri - Case Western Reserve University  
Youwei Zhang - Case Western Reserve University  
Zhihong (Z) Chen - Cleveland Clinic  
Alyssa Charrier - Case Western Reserve University  
Sherwat Abdelrahman - Ain Shams University, dept of neurology, Egypt  
Piyush Walia - Cleveland Clinic  
Gagandeep Singh - Case Western Reserve University  
Matthew Kowalski - Industrial5  
Mir Ali - The Wireless Center



## Design Contest Winners

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Thanks to all participants for sharing the creative entries; we truly value the time, effort and imagination the students put into each design.

**1st Place Daniel Miranda – HSA Cleveland High School**

**2nd Place Alexis Ortega – HSA McKinley Park**

**3rd Place Nelly Reyes – HSA McKinley Park**

Finalists- in alphabetical Order

Bryanna Ibarra – HSA McKinley Park

Chaz Sardin – Quest Charter Academy

Elias Figueroa- HSA Lorain

Leonard Cruz – HSA McKinley Park

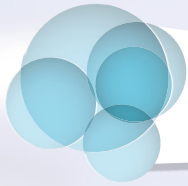
Prince Cross – HSA Lorain

Shelby Powell – Michigan Math and Science Academy

Taya Johnson – Michigan Math and Science Academy

2015 Design Contest Winner





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