

2021 CPS STEM Exhibition Participants

Category	Exhibitor's Name	Grade	Exhibit Title	School
Aero-Space Science				
	Schieleit, Ella	8	Hang Time	Taft Academic Center
Behavioral Science				
	Curtis, Cherish & Kelley, Avery	7	Does age impact personality disorders?	Sayre Language Academy
	Greicius, Simone	7	How Does Color Affect Perception of Taste?	Waters
	Mincy , Elisabeth	8	Effect of Text Notifications on Reaction Time	Augustus H. Burley Elementary
	Earnhart, Gabriella	10	What Influences Detectives In A Investigation	Amundsen High School
	Fritsch-Anderson, Mia	10	Educational Intervention for Vaping in Teens	Whitney M. Young Magnet H S
	Bell, Matthew	11	Color Psychology in Test Situations	Amundsen High School
	Khan, Fatima	11	Sound-Shape Mapping in Mono/Multilingual	Von Steuben
Biochemistry				
	Brake, Ava	7	Waterproof Wood	Andrew Jackson Language Acad.
	Nartey, Valerie	8	Chlorophyll in Leaves vs. Grass and Shrubs	Ted Lenart
	Goswami, Tejas	10	Effect of Fermented Vegetables on Gastric pH	Lane Tech College Prep
	Wallis-Schwartz, Autumn	10	Effects of Liquids on Apple Browning	Amundsen High School
	Rong, Edwin	11	Effect of Antioxidants on Banana Capacitance	Lane Tech College Prep
	Jackson, Jade	12	Spatter Matters	Lindblom Math & Science
Botany				
	Herman, Madeline	7	1, 2, 3 Plant a Pea	Waters
	Harder, Chloe	8	How Does H ₂ O ₂ Affect Plant Cuttings & Seeds?	Beaubien Elementary
	May, Chloe	09	Greenhouse on the Go	Whitney M. Young Magnet H S
	Vazquez, Mia	09	Can Kentucky Bluegrass Grow in Chemicals?	Whitney M. Young Magnet H S
	Warren, Kathryn	10	Electrolyte Powered Growth	Amundsen High School
	Gonzalez, Pamela	12	Does a Seed Need a Seed Coat to Germinate?	Chicago High School for Agri. Sci.
	Salgado, Veronica	12	The effect of fertilizer on plants	Lake View High School
Chemistry				
	Beck, Liam	7	Does Chocolate have a Temper	Keller
	Bugyei, Efua	8	Moist Moisturizers	Andrew Jackson Language Acad.
	Harkabuz, Oskar	8	How Liquids Affect Corrosion Over Time	Michael M. Byrne
	Jaimes, Carlos	11	Wonders of the Soufflé	Von Steuben MSC

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Computer Science				
	South, Amare	8	You've been hacked!	Mollison
	Drake, Jillian	09	Capacitive Heart Rate Monitor	Whitney M. Young Magnet H S
	Hoffman, Rachel	11	Using Computers to Optimize Crop Yield	Lane Tech College Prep
	Lanka, Jai	11	Novel AI for Personalized Cancer Treatment	Walter Payton College Prep
	Bala, Dhruv	12	Autonomous Driving Capability on Sidewalks	Lane Tech College Prep
Earth Science				
	Garcia, Ashley	8	Can Plants Stop Soil Erosion?	Michael M. Byrne
Engineering Science				
	Campbell, Brandon	7	Water Filtration	Gillespie Tech
	Pike, Bradley	8	Which Salt Conducts Electricity Best?	Robert A. Black Magnet School
	Curran, Sydney	10	Using RFID to Enhance a 2-Piece Puzzle	Lane Tech College Prep
	Blume, Logan	11	The Cool Helmet	Von Steuben Metro Science
	LeMasters, Michael	11	Analysis of Common Securities	Amundsen
Environmental Science				
	Dorsey, Benjamin	8	Ice Ice Baby: Effectively Cooling Salt Water	Budlong Elementary
	Matallana, Marcela	8	Ocean Acidification Tests With a Lima Bean	Burley Elementary
	Muczynski, Andreja	8	How does ash affect the growth of plants?	Augustus H. Burley Elementary
	Evans, Piper	10	Green Infrastructures: Minimizing Runoff	Amundsen High School
	Olszewski, Julian	10	Effect of Degradation Products on P. lunula	Lane Tech College Prep
	Lopez, Sara	11	The Effect of Road Salt on Grass Growth	Lane Tech College Prep
	Martinez, Marisa	11	The Effect of Juglone on Root Growth	Lane Tech College Prep
	Sandu, Nicole	11	Effect of Phytoremediation on V. globator	Lane Tech College Prep
	Charlier, Nina	12	Phyto-Remediation of Lead-Polluted Soil	Whitney M. Young Magnet H S
	Martin, Andrew	12	Radiation and the Environment	Chicago High School for Agri. Sci.
Health Science				
	Hwang, Kaitlynn	8	Aspirin absorption in carbohydrate solutions	Newberry Math & Science Academy
	Katsoulos, Sydney	8	Face Covering Experiment	Waters
	Vega, Analy	8	Oh My! Uncovering Hidden Sugar in Your Drink	Lindblom Math & Science Acad.
	Young, McKenzie	8	Soda and Tooth Decay	Ted Lenart
	Goldstein, Gabrielle	10	COVID Doesn't Discriminate	Von Steuben
	Schieleit, Lydia	10	Seasonal Impacts on COVID-19	Northside College Prep
	DeRama, Mary-Gherese	11	Breathing Safely? Running Smart?	Von Steuben MSC
	Kessler, Sedona	11	BMP Regulation of Astrocytic UPR and APOE	Walter Payton College Prep

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Materials Science				
	Augustyn, Lilly	7	Do Fluids Affect The Mass Of Crystal Polymer?	Michael M. Byrne
	Menez, Sarai	8	Which type of cup will keep a hot drink warm?	William E Dever School
	Touw, Emilia	8	Mask Intended	Audubon Elementary School
Mathematics				
	Evans, Katherine	7	The Geometry of Language	Kenwood Academy
	Spasic, Luka	8	The 5-Out	Edison Regional Gifted Center
	Fabrycky, John	10	Train Track Topology	Jones College Prep
	Farb, Felix	11	Understanding Collatz	Walter Payton College Prep
	Karafiol, Jonah	11	Planets, Ships, and Stolen Homework	Walter Payton College Prep
	Tiberia, Frank	11	Collatz Problem Variants	Walter Payton College Prep
	Flener, Karl	12	Representatives and Elections A Broken System	Walter Payton College Prep
	Huggett, Kai	12	Semantic Tableaux for Nand	Walter Payton College Prep
	Nandi, Andre	12	Inversions over Conics	Walter Payton College Prep
	Renteria, Juan	12	{1,2,3} NIM: A Variation to Single Pile NIM	Walter Payton College Prep
Microbiology				
	Joshi, Maya	10	mRNA Vaccine to Prevent Yellow Fever	Walter Payton College Prep
	Joshi, Riya	10	A Novel Macrophage Suppression Genetic Screen	Walter Payton College Prep
	Viniak, Ritvik	10	Bacteriophages: An Alternative to Antibiotics	Walter Payton College Prep
	Fonseca, Nina	11	The Role of Autophagy in Diabetic Retinopathy	Whitney M. Young Magnet H S
Physics				
	Reyes, Crystal	8	Can You Lift?	John C Burroughs
	Patel, Lisa	10	Efficient Propeller Design	Amundsen High School
	Kocot, Daniel	11	Building Particle Accelerator	Von Steuben
Zoology				
	Fenske-Newbart, Hazel	8	The Early Worm Gets the Trash	Andrew Jackson Language Acad.
	Schecter, Henna	11	The Affect of Oleic Acid on Actions of Ants	Lane Tech College Prep
	Berry, Brianna	12	Meals At The Table	Morgan Park High School