



2023 CPS Student STEM Exhibition



Ex#	Student Name	Grade	Project Title	Type*	School
Aerospace					
1	Jiale Xu	7	Drag on Planes	E	Haines Elementary
2	Alaina Valmassei	10	Ef of Wing Planform on Stall Angle	E	Lane Tech College Prep
3	Henry Bao	11	Airfoil Design w/Comp Fluid Dynamics	D	WalterPayton
4	Zayd Mjzoub	12	Inlet Cone Drag	E	Jones College Prep
Behavioral Science					
5	Violet Bramley	7	Does Color affect Taste?	E	Mary Gage Peterson Elementary School
6	Josephine Herbstman	7	Ef of Breathing Techniques on Stress	E	Burley School
7	Srishti Jassal	7	Reading Online vs Reading Paper	E	Skinner North Classical
7	Gweniveve Zoldan	7	Reading Online vs Reading Paper	E	Skinner North Classical
8	Georgia Nevotti	7	How Does Food Color Taste	E	Waters Elementary
9	Audrey Tinley	7	Music, Does It Help or Hurt	E	Ted Lenart Regional Gifted Center
10	Addison Davis	8	Do Different Genres Music Memory	E	Skinner North Classical School
11	Lucinda DeMaio	8	Does Age Affect Gullibility	E	Waters Elementary
12	Norah Robinson	8	Eyewitness Testimonies	E	Gary Comer Middle School
13	Yumou Lu	10	Ef of Tone on Placebo Effect	E	Lane Tech College Prep
14	Sophia Veranga	10	Ef of Tone on Placebo Effect	E	Lane Tech College Prep
Biochemistry					
15	John (Jack) Willow	7	What Moisturizer Best Moisturizing Skin	E	Skinner North Classical School
16	Khiana Harvey	8	Do Dif Liquids Affect Plant Growth	E	Grissom Elementary School
17	Jimena Hernandez	8	Can Mints Improve Reaction Time	E	West Park STEAM School
17	Armani Rivera	8	Can Mints Improve Reaction Time	E	West Park STEAM School
18	Itzel Montes	8	What Beverage Stains Teeth	E	West Park STEAM School
18	Nely Antunez	8	What Beverage Stains Teeth	E	West Park STEAM School
19	Sofia Pena	8	Battle of Percentages	E	Josephine C. Locke Elementary
20	Nora McGuire	10	Effect of Cooking on Vitamin C Depletion	E	Chicago Agriculture
Botany					
21	Sofia Casales	7	What Can Help Roses Stay Fresh	E	Keller Elementary
22	Cathal Deppeler	7	Which Music Affects Growth of Plants	E	Solomon Elementary
23	Natalia Reyes	7	Flower Gleam & Glow	E	Burroughs Elementary
24	Maya Talos	7	Which Type of Water Is Best For Plants	E	Solomon Elementary
25	Francesca Avila	8	Ef of Rabbit Diet Plant Fertilizer	E	Decatur Classical School
26	Isabel Harris	8	Plants & Light Color	E	Budlong School
27	Riley Richardson	8	Petal Pigments	E	Audubon
28	Daniela	8	Plants on Acid Rain	E	Haugan Elementary
29	Akosua Haynes	10	Effect of Salinization on Plant Growth	E	Walter Payton
30	Annika Hutcheson	10	Water Sources & Resultant Plant Growth	E	Amundsen High School
31	Mikayla Foertsch	12	Radiated Radishes	E	Chicago Agriculture
Chemistry					
32	Nathan Allen	7	The Breakdown	E	Ruggles S.T.E.A.M. Elementary School
33	Rubina Bachcha	7	Do pH Level Change With Temperature	E	Palmer Elementary
34	Isabella Blankenberger	7	"A Real Pain in the Acid"	E	William Howard Taft Academic Center
35	Cara Daniels	7	Salty Antibubbles	E	Franklin Fine Arts Center
36	Jayleen Marin	7	Which Coffee Stains Teeth	E	West Park STEAM School
36	Sophia Saustegui	7	Which Coffee Stains Teeth	E	West Park STEAM School
37	Vedika Patel	7	Ef of Dye on Different Fabrics	E	OA Thorp
38	Nevaeh Dotson	8	Whitening Toothpaste vs Regular	E	Gary Comer Middle School
39	Hanna Florczak	8	To Rust or Not to Rust	E	OA Thorp
39	Viviana Vargas	8	To Rust or Not to Rust	E	OA Thorp
40	Robert Foote	8	Which Fruit Contains The Most Sugar	E	Arthur Dixon Elementary
41	Gabrielle Gardner	8	Temperature Was the Case	E	Arthur Dixon Elementary
42	Beatrice Hirsch	8	Spherification	E	Beaubien Elementary
43	Tracey Huynh	8	Acid Catalysis	E	Beaubien Elementary
44	Filip Kwiatkowski	8	Leaner Meaner Greener	E	OA Thorp
44	Jonathan Slota	8	Leaner Meaner Greener	E	OA Thorp

Chemistry Continued

* E-Experiments I D-Design

M-Mathematics



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Ex#	Student Name	Grade	Project Title	Type*	School
45	Yvonne Liang	8	How Does Sugar Affect pH Levels	E	Ted Lenart Regional Gifted Center
46	Thomas Lynch	8	Effect of Location on Lead	E	Ebinger School
47	Laura Miranda	8	Chilling Chewing	E	Budlong School
48	Suhaima Patel	8	Does Candle Color Affect Burn Rate	E	Palmer Elementary
49	Taylor Quach	8	What Type Flour Yields Cupcakes	E	Palmer Elementary
50	Allison Ramirez	8	How Acidic Are Common Drinks	E	West Park STEAM School
50	Mariana Tolayo	8	How Acidic Are Common Drinks	E	West Park STEAM School
51	Zadie Rocke	8	Sugar Creates Rock Candy	E	Ted Lenart Regional Gifted Center
52	Yuliana Rojas	8	Does Temp Effect Luminol's Glow	E	Byrne School
52	Chelsea Tyrala	8	Does Temp Effect Luminol's Glow	E	Byrne School
53	Sydney Rosen	8	Contrasting Cookies	E	Chicago World Language
54	Elijah Sawyers	8	What's In Your Water	E	Gillepsie Tech Magnet
55	Steffany Shvartshteyn	8	What Lotion Works Best	E	Franklin Fine Arts Center
55	Helen Karafiol	8	What Lotion Works Best	E	Franklin Fine Arts Center
56	My Tran	8	Acid Water	E	McPherson Elementary
57	Noah Wilson	8	The Great Bake Off	E	Audubon
58	Rin Kleinman	9	Chemical Reaction in Slime	E	Amundsen High School
59	Khadijat Ismaila	11	Salt or No Salt?	E	Von Steuben MSC
60	Lisa Patel	12	Effectiveness Indigestion Medicines	E	Amundsen High School
Computer Science					
61	Felix Higgins	7	The Connection	E	Franklin Fine Arts Center
62	Rishi Sandrana	11	Predicting Real-End Collisions	D	Walter Payton
63	Patrick Conlon	12	Machine Learnng AI Recycling	D	Walter Payton
Earth Science					
64	Lily Royer	7	PPM in The River	E	William Howard Taft Academic Center
65	Symone Harden	8	Do Storm Drains Keep Water Trash Free	E	Ted Lenart Regional Gifted Center
66	Hayley Zelaya	8	Does Light Affect Crystal Growth	E	Palmer Elementary
67	Nikita Agrawal	11	ML Model To Predict WildFire Burned Areas	E	Whitney Young
68	Sofia Weber	11	Regional Variation in Wind Impact on Sea Ice	E	Northside College Prep
Electronics					
69	Brandon Swan	7	Battery Energy	D	Gillepsie Tech Magnet
70	Bianca Verdin	10	Energy Efficient Walking Robot	D	Lane Tech College Prep
71	Ian Vargas	11	Disabled Door Device	D	Von Steuben MSC
Engineering Science					
72	Rico Collins	7	Catapult	E	Wadsworth STEM
73	Henry Everett	7	Windy Bricks	E	William Howard Taft Academic Center
74	Adeline O'Donnell	7	Fabulous Folder	D	Audubon
74	Vivian Whittle	7	Fabulous Folder	D	Audubon
75	Nevaeha White	7	Grasping with Straws	D	Shoop Math, Science & Technology
76	Madilyn Dugan	8	No-Slip Spoon Grip	D	McDade Classical
76	Tahilia Robinson	8	No-Slip Spoon Grip	D	McDade Classical
77	Jack Faye	8	Solar Tracker vs Stationary	E	Burley School
78	Katrina Jiang	8	Let There Be Light	D	Franklin Fine Arts Center
78	Lexi Short	8	Let There Be Light	D	Franklin Fine Arts Center
79	Johnny Martinez	8	Project Hand	E	Saucedo Scholastic Academy
79	Camilo Valerio	8	Project Hand	E	Saucedo Scholastic Academy
80	Finnegan McMahon	8	Which Type House Resistant To Hurricane Winds	D	Burley School
81	Yusra Talaty	8	Escaping the Heat	D	Mary Gage Peterson Elementary School
81	Julieta Moreno	8	Escaping the Heat	D	Mary Gage Peterson Elementary School
82	Izaith Aguero	10	Digital Stethoscope Records Heart Beats	D	Lane Tech College Prep
83	Divinefavour Osuji	10	Autonomous Tech Drones & Detection	D	Lane Tech College Prep
84	Sydney Curran	12	RFID Smart Toy	D	Lane Tech College Prep

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Ex#	Student Name	Grade	Project Title	Type*	School
Environmental Science					
85	Clare (Cal) Tolleson-	7	Microbial Fuel Cells	E	Decatur Classical School
86	Sienna Vazquez	7	Effect of Porous Pavement Reducing Runoff	E	Decatur Classical School
87	Catherine Zacks	7	Run Away Carbon	E	William Howard Taft Academic Center
88	Neena Agrawal	8	Removing Phosphate from Chgo River	E	Skinner North Classical
89	Oluwakemi Ekundayo	8	Eco-ship	D	Amelia Earhart
90	Luis Gonzalez	8	The Situation of Evaporation	E	McPherson Elementary
91	Kathleen Lah	8	Is the Northwest Side of Chicago Water Safe	E	Ebinger School
92	Elizabeth Tunney	8	Which Water Filtration Method Is Best	E	Solomon Elementary
92	Yasmina Hadzic	8	Which Water Filtration Method Is Best	E	Solomon Elementary
93	Syncere Williams	10	Which Filtration Material Is Best	E	Robert A. Black Magnet
94	Alexander Czempinski	10	Effect of Time on Restored Biodiversity	E	Lane Tech College Prep
95	Landra Ream	10	Effect of A. Indica on Soil pH & Plant Growth	E	Lane Tech College Prep
96	Ella Schieleit	10	PFAS Concentration Illinois Water Systems	E	Northside College Prep
Health Science					
97	Lucille Rieger	8	Does Eye Color Affect Your Peripheral Vision	E	Waters Elementary
98	Darreanna Benjamin	8	Bad 2 The Bone	E	McPherson Elementary
99	Sophia Fisher	8	Testing The Effects of Blood Thinners	E	Newberry Math & Science Academy
100	Hailey Griffin	8	Liquids & Electrolytes	E	Gillespie Tech Magnet
101	Samuel Jaimes	8	Lung Capacity Test	E	Newberry Math & Science Academy
Health Science Continued					
102	Eleanor Manalo	8	What Is In Your Water?	E	Beaubien Elementary
102	Oriana Yousif	8	What Is In Your Water?	E	Beaubien Elementary
103	Madelyn Ramirez-	8	Does Amt of NaCitrate Interfere Spherification	E	Byrne School
104	Zoe Stewart	8	Music & Heart Rate	E	Newberry Math & Science Academy
105	Anaya Joshi	9	Prevention/Screening For Eating Disorders	D	Walter Payton
106	Yayra Tamatekou	9	Electronic Artificial Pancreas	D	Lindblom Math & Science Academy
107	Matilda Burgess	10	Angiotensin Genotypes & COVID-19 Sytoms	E	Amundsen High School
108	Katelyn Norris	11	What Type Of Water Has pH Closest Neutral	E	Chicago Agriculture
109	Zhouqi Shao	11	Transcriptome Changes In Cells Of COVID Patient	E	Whitney Young
110	William Xu	11	Influence Of COVID Pandemic H. Pylori Prev	E	Walter Payton
111	Wylan Harris	12	Does Social Media Affect Heart Rate	E	Carver Military Academy
112	Lydia Schieleit	12	Association Income, Air Quality, & Asthma	E	Northside College Prep
113	Maya Joshi	12	mPOC/hydroxyapatite Bone Regeneration	D	Walter Payton
114	Ritvik Viniak	12	A Novel siRNA Drug AML Treatment	D	Walter Payton
Material Science					
115	Mia Dell Isola	7	Portable Pocket	D	Audubon
115	Annabella Glenn	7	Portable Pocket	D	Audubon
116	Miley Flores	7	Which Brand of Paper Towel Is Most Effective	E	Columbus Elementary
116	Keyla Flores	7	Which Brand of Paper Towel Is Most Effective	E	Columbus Elementary
117	Alani Marroquin	7	Which Laundry Detergent Works	E	Palmer Elementary
118	Anais Cabrera	8	Heat It	E	McPherson Elementary
119	Ian Johnson	8	Golf Bang For Your Buck	E	Audubon
120	Richard Kattakayam	8	Best Airplane Designs For Best Flight	E	OA Thorp
120	Alexander Rainer	8	Best Airplane Designs For Best Flight	E	OA Thorp
121	Adesa Mulliqi	8	Effect of Play-doh Texture On Different Liquids	E	Budlong School
122	Malia Parker-Harris	8	Crystal Chaos	E	Wadsworth STEM
123	Sanaa Payne-Stewart	8	The PasteGuard	D	Amelia Earhart
124	Juliette Popelka	8	Effect of Liquids on Permanent Markers	E	Ebinger School
124	Molly Hardie	8	Effect of Liquid on Permanent Markers	E	Ebinger School
125	Promise Singleton	8	Ice vs Spice	E	Chicago World Language
126	Jack Sniezek	8	Effect of Different Materials Sound	E	Ebinger School
126	Michael O'Malley	8	Effect of Different Materials Sound	E	Ebinger School
127	Miya Van Patten	8	Which Material Absorbs The Most Impact	E	Burley School

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M-Mathematics



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Mathematics					
128	Darius Jones	7	Exploring Infinity via Ulam Primes	E	Whitney Young
129	Hannah Yu	7	Effect of Coin Type on Heads or Tails	M	Burley School
130	Lydia Popova	7	Designing Zig-Zag Bridges	M	Kenwood Academy
131	Nathaniel Titus	7	Expanding Game Theory	M	Whitney Young
131	Sameer Pai	7	Expanding Game Theory	M	Whitney Young
132	Rongyi Chen	7	Light- Speed Maze Solving	M	Whitney Young
132	Grant Liu	7	Light- Speed Maze Solving	M	Whitney Young
133	Aryaa Gupta	8	Peg Solitaire	M	Whitney Young
133	Annie Zhou	8	Peg Solitaire	M	Whitney Young
134	Cynthia Chen	8	An Extended Grid of Dots	M	Whitney Young
134	Rebecca Wang	8	An Extended Grid of Dots	M	Whitney Young
135	Alina Zhao	8	Moving on a Grid	M	Whitney Young
135	Max Ziegelman	8	Moving on a Grid	M	Whitney Young
136	Cyrus Di	8	Total Transformation	M	Whitney Young
136	Karl Patel	8	Total Transformation	M	Whitney Young
137	Bogdan Felix Jones	9	Gaussian Primes w/Pseudoprime Coordinate	M	Walter Payton
138	Caleb Sun	11	Inradii/Circumradii Range	M	Walter Payton
139	Ian Mann	11	Rolling Down	M	Walter Payton
140	Maggie Tsyganova	12	Radical Chess Rooks	M	Walter Payton
141	Benjamin Rothschild	12	The Digits Before Nothing	M	Walter Payton
Microbiology					
142	Lucy Kennedy	8	Effect Natural Disinfectants On Bacteria	E	Decatur Classical School
143	Griffin Stofko	10	Effect of Bisphenol A Oscillatoria sp	E	Lane Tech College Prep
Physics					
144	Chloe Toporek	10	Air Pressure & Soccer Balls	E	Amundsen High School
145	Caleb Adamji	7	How Does Color Affect Heat Absorption	E	Mary Gage Peterson Elementary School
145	Angelina Erickson	7	How Does Color Affect Heat Absorption	E	Mary Gage Peterson Elementary School
146	Elliot Bolduc	7	Height & Surface BPA	E	Decatur Classical School
147	Alyssa Diaz	7	What Will Drop First	E	Chicago World Language
148	Kyle Mak	7	Keeping It Cold	E	Keller Elementary
149	Elijah Milsap	7	Unfreeze! How Does Ice Melt	E	Ted Lenart Regional Gifted Center
150	Laith Ahmad	8	Charge Phone More Efficient	E	Byrne School
151	Christian Colvin	8	Surface Speed	E	Gillepsie Tech Magnet
152	Malia Johnson	8	Does Low Power Mode Af Charging Time Iphone	E	Arthur Dixon Elementary
153	Hector Kestler	8	Measuring Magnets Strength /Magnet Powder	E	Saucedo Scholastic Academy
154	Stephanie Liang	8	Light Distance	E	Haines Elementary
154	Karen Li	8	Light Distance	E	Haines Elementary
155	Aakifah Patel	8	Wind Turbine Designs	E	Budlong School
156	Hemani Patel	8	Light On Solar Panels	E	Newberry Math & Science Academy
157	Sofia Perez	8	Mentos and Coke	E	Saucedo Scholastic Academy
158	Mateo Wilson	8	Measuring Magnetic Field	E	Robert A. Black Magnet
159	Nevin Ye	8	Dialating Magnetic Fields	E	Haines Elementary
159	Nelson Chen	8	Dialating Magnetic Fields	E	Haines Elementary
160	Sofia Bell	9	How Does Color Affect Temperature	E	Amundsen High School
161	Jacklin Richman	9	Which Water Bottle	E	Amundsen High School
162	Jeremiah Gaitlin	11	Ef of Foreign Substance of Baseball Accuracy	E	Chicago Agriculture
163	Katherine Haran	11	Magnetic Acceleration Track	E	Chicago Agriculture
Zoology					
164	Christina Gumenyak	7	Do Different Genres of Music Afectf Cats & Dog	E	Columbus Elementary
164	Evelyn Bleidl	7	Do Different Genres of Music Afectf Cats & Dog	E	Columbus Elementary
165	Sydney Matiarena	7	Homemade vs Store Bought Incubator	E	Burroughs Elementary

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