

2020 CPS STEM Exhibition Participants

Exhibit #	Ex or De	First Name	Last Name	Grade	Title	School
Aero-Space Science						
1	E	Elizabeth	Schieleit	7	Hang Time	Taft HS
2	E	Jakob	Nagy	8	Does Size Matter?	Beaubien
3	D	Admir	Pali	10	Holes and Parachutes?	Mather HS
4	E	Alejandro	Arellano	12	Ways to Get Aero Like A Pro!	Chicago Agriculture HS
5	E	Omar	Majzoub	12	Aerodynamics of Nose Fuselage	Jones
Behavioral Science						
6	E	Imogen	James-Downie	7	Effect of Food on Food-Word Reaction Times	Kenwood
7	E	Ava	Dean	8	Colors and Your Mood	Columbus
8	E	William	Lindahl	8	Hey, What's That Noise?	Cassell
9	E	Jacquelin	Ortega	8	Taste the Rainbow	Sadlowski
10	E	Cassandra	Reyna-Demes	8	Under Pressure	LaSalle
11	E	Delilah	Shaw	8	Lights! Camera! Memory!	Hawthorne
11	E	Lilia	Tanabe	8	Lights! Camera! Memory!	Hawthorne
12	E	Tamara	Zhylka	8	Effects of Video Games	Columbus
12	E	Olena	Romantsova	8	Effects of Video Games	Columbus
13	E	Gabriella	Earnhart	9	What Impacts Detectives in An Investigation?	Amundsen
14	E	Mia	Fritsch-Anderson	9	Educational Intervention for Vaping in Teens	Whitney Young HS
15	E	Rachelle	Perez	9	How People Process Sadness	Lake View
16	E	Chiara	Restuccia	9	Nocturnal Insects Light vs. Heat	Lincoln Park
17	E	Aileen	Salas	9	Is the Human Memory Reliable?	Curie
18	E	Amari	Baeza	10	Music Genres on the Ability to Multitask	Curie
19	E	Matthew	Bell	10	Color Psychology in Test Situations	Amundsen
20	E	Eva	Contreras	10	Test Taking	Curie
21	E	Evelyn	Olejniczak-Similio	10	Positive Reinforcement vs. Punishment	Amundsen

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Biochemistry						
22	E	Aditya	Mandal	7	Effect of Salt on DNA Extraction	Lenart
23	E	Brooke	Pitts	8	Composting Methods	Dixon
24	E	Alima	Tamatekou	8	Denaturing Proteins	Dixon
25	E	Autumn	Wallis-Schwartz	9	Effects of Liquids on Apple Browning	Amundsen
26	E	Anjelo	Evans	10	Phosphoproteomics of Influenza A	Lake View
27	E	Bader	Rezek	10	The Science Behind Smoking	Von Steuben HS
28	E	Edwin	Rong	10	Effect of Antioxidants on Banana Capacitance	Lane
29	E	Angela	Ruiz	11	One Man's Trash is Another's Energy	Phoenix Military HS
30	E	Kamaldeen	Akorede	12	Effect of pH on Catalase Activity and Health	Amundsen
31	E	Nicole	Alicea	12	Effect of Humidity on Cellular Respiration	Amundsen
32	E	Anagha	Aneesh	12	Engineered Exosomes for Wound Healing	Payton HS
Botany						
33	E	Shaila	Alvarez-Camberos	7	The Fertilizer Contest	Stevenson
34	E	Isabella	Gomez	7	Growing Arugula	Washington G ES
35	E	Chloe	Harder	7	How Does H2O2 Effect Plant Cuttings &	Beaubien
36	E	Erik	Servin	7	Nuked Beans	Byrne
37	E	Liliana	Cochiaro	8	How to Make Cut Flowers Last Longer	Norwood Park
38	E	Finn	Collins	8	Do Onions Have Feelings?	Norwood Park
39	E	Miranda	Hernandez	8	Let the Race Begin!	Shields Middle
39	E	Shadden	Jasso	8	Let the Race Begin!	Shields Middle
40	E	Samuel	Kniffen	8	The Most Efficient Indoor Farming System	Burley
41	E	Giselle	Soriano-Vega	8	Hydroponics vs. Soil	Palmer
42	E	Julia	Bodea	9	Microwave Radiation and Plant Growth	Lincoln Park
43	E	Natalie	Morro	9	The Effect of Soil Acidity on Plant Growth	Lincoln Park
44	E	Ryan	Pazmino	9	Weed Killer on GM & WT Plant Growth	Lincoln Park
45	E	Kathryn	Warren	9	Electrolyte Powered Growth	Amundsen
46	E	Xochitl	Alonso	10	The Effect of Irradiation on Seeds	Marine Leadership
47	E	Pamela	Gonzalez	11	Does A Seed Need A Seed Coat to	Chicago Agriculture HS
48	E	Veronica	Salgado	11	The Effect of Fertilizer on Plants	Lake View

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Chemistry						
49	E	Arabelia	Brown	7	Sweet Snake	Saucedo
49	E	Eileen	Cedillo	7	Sweet Snake	Saucedo
50	E	Isabella	Guzman	7	The Effect of Flour on Cupcake Height	Kenwood
51	E	Gabriela	Harkabuz	7	Muffin Density	Byrne
52	E	Jiayang	Lin	7	Up In Smoke	Lenart
53	E	Nani	London	7	Color Coated Flames	Mason
54	E	Nylah	Robinson	7	A Class ACT in Science	Owen
55	E	Jaslynn	Williams	7	How Does Temperature Affect pH?	Frazier Intl.
56	E	Amarl	Wilson	7	Zero Sugar	Cullen
57	E	Isabel	Aguirre	8	UV Light vs. Sunscreen	Richardson Middle
57	E	Ivan	Hernandez	8	UV Light vs. Sunscreen	Richardson Middle
58	E	Lucila	Beltran	8	Casein Milk	Haugan
59	E	Jolet	Garcia	8	Balloon Blow Up	Lee
60	E	Jose	Guzman	8	Healthiest Brand of Water	Lee
61	E	Erika	Hanna	8	Performance of Hand Warmers	Newberry
62	E	Janyce	Martin	8	pH of Water	Hughes L
63	E	Julianna	Mokaya	8	Eggcellent Tooth Decay	LaSalle
64	E	Kamerin	Whitmore	8	The Floating Egg In Water	Lawndale
65	E	Natalia	Espinoza	9	The Best Preservative Method for Guacamole	Lincoln Park
66	E	Emilee	Ortega	9	Bath Boomb Science	Lake View
67	E	Hafsa	Rizwan	9	The Effect of pH on Apple Browning	Lincoln Park
68	E	Mila	Wolf	9	The Effect of Coatings on Dissolution Rates	Lincoln Park
69	E	Thomas	Haran	10	Electro-Analysis	Chicago Agriculture HS
70	E	Ali	Khan	10	Aquarium Filter vs. API Quick Start	Mather HS
71	E	Francisco	Pantoja	11	Which Ibuprofen Dissolves the Fastest?	Juarez
72	E	Liliana	Pulido	11	Which Anti-Acid Works the Best?	Carver Military
73	E	Anayely	Reyes-Trejo	12	Let Us C It Leave	Juarez

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Computer Science						
75	D	Kaelyn	McColl	7	See Like Me	Ogden ES
76	E	Crystal	Angel	8	Programming Dexter	Columbia Explorers
77	D	Caitlyn	Lam	9	Minimizing Screen Time	Whitney Young HS
78	D	Rachel	Hoffman	10	Using Computers to Optimize Crop Yield	Lane
79	D	Caleb	Shin	11	Tackling Toxicity With Deep Learning	Payton HS
Earth Science						
80	E	Nathan	Ruger	8	Soiled You Again	Audubon
Electronics						
81	D	Daniel	Ingram	7	Alarming littleBits 2.0	Murray
82	E	Kyle	Henikman	8	Digital Frequency	Locke
83	D	Anna	Polkowski	8	The Working of Your Heart Beat	Dever
84	E	Nikki	Nguyen	9	Effects of Different Materials on WiFi	Mather HS
85	D	Abiha	Hussain	10	Charger To-Go	Mather HS
Engineering Science						
86	D	Henry	Bleck	7	The Wave Stopper	Edison
87	D	Susana	Hernandez	7	Designing A Robot to Help the Environment	Burroughs
88	D	Yuri	Kolovos	8	Rescue Robot II	Budlong
89	E	Kayla	Nguyen	8	Are the London Bridges Falling Down?	Sheridan
90	D	Gavin	Stiglitz	8	Taking A Shot At Building An Autoinjector	Hawthorne
91	D	Emilia	Touw	8	Third Eye	Audubon
91	D	Amelia	Lema	8	Third Eye	Audubon
92	D	Joy	Williams	8	Bird Safe Wind Turbines	Kellogg
93	D	Anthony	Pereira	9	Dooring	Whitney Young HS
94	D	Malina	Ventura	9	Roof Safety Platform	Chicago Agriculture HS
95	D	Logan	Blume	10	The Cool Helmet	Von Steuben HS
96	D	Daniel	Kroger	10	What Would You Do With A Breath of Fresh	Phoenix Military HS
97	D	Tomasz	Krzeminski	10	3D Printed Solar Panel Concentrator	Lane
98	E	Michael	LeMasters	10	Analysis of Common Securities	Amundsen
99	E	Karen	Menez	10	Filtering to Obtain the Best Drinking Water	Kelvyn Park

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100	D	Dhruv	Bala	11	Autonomous Driving Capability on Sidewalks	Lane
101	E	Nicole	Daraban	11	Which Truss Is Trustful?	Von Steuben HS
102	D	Guadalupe	Pulido	11	Exploring the World of Prosthetics	Carver Military
103	D	Gabriele	Ron	11	The Efficiency of EM Energy Harvesting	Lane
104	D	Sofia	Rogel	12	Pediatric Flexion Contracture Orthosis	Von Steuben HS
105	E	Jarvis	Williams	12	Wind Energy Production on Windmill Models	Chicago Agriculture HS
Environmental Science						
106	E	Ayla	Carli	7	Cost of Carbon	Burr
107	E	Sylvia	Foster-Rice	8	Natural Water Filters	Waters
108	E	Chloe	Gallagher	7	Fantastic Plastic	Coonley
109	E	Nina	Grice	7	Cooking Up Science	Haley
110	E	Maya	Petrovich	7	The Quality of H2O	Burr
111	E	Analy	Vega	7	Biofuels vs. Fossil Fuels	Lindblom
112	E	Wendy	Deng	8	Oil Spills	Healy
113	E	Eychaja	Harrington	8	Can Nanotechnology Clean Up Oil Spills?	Frazier Int'l Magnet
114	E	Braulio	Leon-Garcia	8	Danger Amongst Us!	Shields Middle
115	E	Alexia	Oliveira	8	Rocking With Erosion	Healy
116	E	Piper	Evans	9	Green Infrastructures: Preventing Runoff	Amundsen
117	E	Adam	El Orch	10	Grub for Grubs	Von Steuben HS
118	E	Megan	Huynh	10	Neon Lights, Colors Bright	Amundsen
119	E	Sara	Lopez	10	The Effect of Road Salt on the pH of Soil	Lane
120	E	Marisa	Martinez	10	The Effect of Juglone on Root Growth	Lane
121	E	Nicole	Sandu	10	Effect of Deforestation on V.globator Growth	Lane
122	E	Nina	Charlier	11	Phyto-Remediation of Lead Polluted Soil	Whitney Young HS
123	E	Andrew	Martin	11	Radiation and the Environment	Chicago Agriculture HS
124	E	Yulissa	Ramirez	11	Polluted Plants	Carver Military
125	E	Taji	Young	11	Plastic in Water	Von Steuben HS
126	E	Steven	Li	12	Environmentally Influenced Chicago Crime	Payton HS
127	E	Maeghan	O'Laughlin	12	Acid Rain on Mycorrhizal Soybeans	Chicago Agriculture HS
128	E	Amalia	Petropoulos	12	Efficacy of Kernza on Soil Health	Mather HS

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Health Science						
129	E	Shyraine	Davis	7	Calorie Burn	Mt Vernon
129	E	Kalijah	Jones	7	Calorie Burn	Mt Vernon
130	E	Praniha	Karri	7	Green Tea vs. Altace	Chappell
131	E	Michael	Bastian	8	Eat the Heat, Feel the Beat	Cassell
132	E	Katelin	Brock	8	The Effect of Acidity on Bone Stability	Earhart
133	E	Karen	Escobar-Salgado	8	Are Hand Dryers Harmful to Our Hearing?	Burroughs
134	E	Morgan	Gonzales	8	Music in My Blood	Sutherland
135	E	Antonio	Gonzalez	8	C-Section Protection	Locke
136	E	Eve	McMillin	8	A Dose of Glucose	Hawthorne
137	E	Isabella	Cordoba	9	The Pain of Playing An Instrument	Whitney Young HS
138	E	Geseli	Gonzalez	9	Timing Your Reading	Whitney Young HS
139	E	Ohn	Li	9	Mental Health Literacy in Schools	Whitney Young HS
140	E	Fariya	Adil	10	Light vs. Blood Pressure	Mather HS
141	E	Cynthia	Castro	10	The Effectiveness of Lotions	Curie
142	E	Izabella	Journet	10	Effects of Whitening Ingredients on Enamel	Lake View
143	E	Laiba	Khan	10	Chapped Lips No More	Mather HS
144	E	Madeline	Oktem	10	The Effect of Different Ingredients on Teeth	Lake View
145	E	Rebeca	Raphael	10	Exercising on Students Performance	Mather HS
146	E	Violeta	Lanza	12	The Most Effective Sunscreen	Juarez
Materials Science						
147	E	Ranyia	Peterson	7	The Strength of Eggshells	Lawndale
148	E	Emely	Rodriguez	7	Affects on Electric Paint	Kinzie
149	D	Zuzana	Bielak	8	Biodegradable Plastic	Dever
150	E	Dominika	Kos	8	Dissolving Soap Bars	Byrne
151	E	Ava	Manrique	8	Bread Mold vs. Container	LaSalle
152	E	Franco	Berardi	9	Temperature on Rubber Band Elasticity	Lincoln Park
153	E	Stephanie	Sanchez	9	How Much CO2 Do I Have?	Phoenix Military HS
154	E	Nathan	Smolensky	11	The Effect of Temperature on Bunce Height	Lake View

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Mathematics						
155	E	Daniel	Baeza	7	Which Car is Most Efficient?	Grissom
156	D	Samantha	Bratley	7	Cut It Up	Whitney Young HS
156	D	Natalie	Chlebus	7	Cut It Up	Whitney Young HS
157	E	Miles	Jung	7	Frogs on a Log	Whitney Young HS
157	E	Aadi	Kalra	7	Frogs on a Log	Whitney Young HS
158	E	Axel	Olson-Brady	7	Dice Rolls Experimental and Theoretical	Peterson
159	E	Isabella	Alnemri	8	Spay and Neuter Rates Affect Euthanasia	Grissom
160	E	Henry	Bao	8	Tic-Tac-Toe: Rubik's Cube Edition	Whitney Young HS
160	E	John	Penn	8	Tic-Tac-Toe: Rubik's Cube Edition	Whitney Young HS
161	D	Ricardo	Cabrera	8	The Circle Game	Lindblom
162	D	Julia	Kim	8	3-D Sudoku	Whitney Young HS
162	D	Si-Eun	Rhee	8	3-D Sudoku	Whitney Young HS
163	E	Laerdon	Kim	8	Tower Tinkering	Whitney Young HS
163	E	Noelani	Siharath	8	Tower Tinkering	Whitney Young HS
164	D	Phoebe	Koehler	8	Game Features of Mastermind	Whitney Young HS
164	D	Axel	Hinz	8	Game Features of Mastermind	Whitney Young HS
165	D	John	Fabrycky	9	Probability of Imposter Transiting Exoplanets	Jones
166	D	Zach	Gillis	11	The Table: An Exploration	Payton HS
167	D	Elizabeth	Kujawa	11	Distributions of Lines Reflected Off Curves	Payton HS
168	E	Elizabeth	Martinez	11	The Repopulation of Japan With 5 Pairs	Phoenix Military HS
Microbiology						
169	E	Adonijah	Hall	8	Contact Lens Solutions	Hendricks
170	E	Nicole	Kozlowski	8	The Science of Food Storage	Thorp O A
170	E	Veronica	Florczak	8	The Science of Food Storage	Thorp O A
171	E	Ian	Pratt	8	Slime Time!	Audubon
172	D	Maya	Joshi	9	Novel mRNA Vaccine to Prevent Yellow Fever	Payton HS
173	D	Riya	Joshi	9	A Novel Macrophage Suppression Genetic	Payton HS
174	E	Amer	Dzankovic	10	Pop That Pimple	Von Steuben HS
175	E	Nina	Fonseca	10	The Effect of Autophagy on Cell Survival	Whitney Young HS

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176	E	Gelsey	Guijosa	10	Enzymes Making Biofuels With Plants	Marine Leadership
177	E	Grisel	Sanchez	10	Science of Aquaponics	Marine Leadership
178	E	Cristian	Carpio	12	Genetic Analysis of AML Cell Lines	Payton HS
179	E	Junbin	Huang	12	Regulation of Wnt Pathway Through Vitamin	Payton HS
180	E	Michael	Puczko	12	The Effect of pH on Antibiotic Efficacy	Lane HS
Physics						
181	E	Joshua	Alfaro	7	How Loud Can A Paper Speaker Get?	Addams
182	E	Noah	Bjurstrom	7	Slowing Down the Acceleration of Gravity	Waters
183	E	Isabella	Peterson	7	Producing Energy: Solar or Wind Power?	Beaubien
184	E	Mischa	Reddy	7	The Shining	Taft HS
185	E	Crystal	Reyes	7	Can You Lift?	Burroughs
186	E	Caleb	Sun	7	Transparency and Speed of Light	Lenart
187	E	Jonathan	Czaszwicz	8	Wow, That's Fast, or Is It?	Cassell
188	E	Je'Taun	Ellis	8	The Sound of Energy	Lawndale
189	E	Amelia	Oldak	8	Chemiluminescence: Will It Glow?	Dever
190	E	Nicki	Ta	8	Which Type of Airfoil Creates the Most Lift?	Beaubien
191	E	Zayd	Majzoub	9	Optimum Blade Angle for Thrust	Jones
192	E	Jerry	Menez	9	Which Materials Can Block Radio Waves?	Kelvyn Park
193	E	Julia	Risk	9	The Effect of Sail Shape on Boat Speed	Lincoln Park
194	E	Elijah	Spencer	9	Exploring Bernoulli's Principle	Chicago Agriculture HS
195	E	Nevaeh	Wade	9	Sound Waves vs. Water Waves	Kelvyn Park
196	D	Azucena	Alonso	10	Moisture Sensor Used to Grow Plants	Marine Leadership
197	E	Jersey	Merrick	10	Magnetic Acceleration Device	Chicago Agriculture HS
198	E	Ana	Rivas	10	How to Soundproof at Home!	Kelvyn Park
199	E	Citlali	Rizo	10	How Does Color Absorb Heat?	Curie
200	E	Dante	DiCatri	11	What's Your Angle?	Von Steuben HS
201	E	Jason	Sanchez	11	Which Insulator is Best?	Von Steuben HS
202	E	Donald	Tichy	12	Anti-Gravity Propulsion	Chicago Agriculture HS

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Zoology						
203	E	Hazel	Fenske-Newbart	8	How Many Sea Monkeys Do You See?	Jackson A
204	E	Brianna	Berry	10	Meals At The Table	Morgan Park HS
205	E	Henna	Schechter	10	The Effect of Oleic Acid on Actions of Ants	Lane