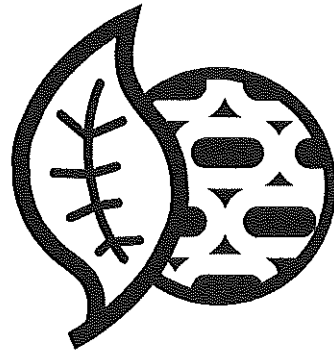
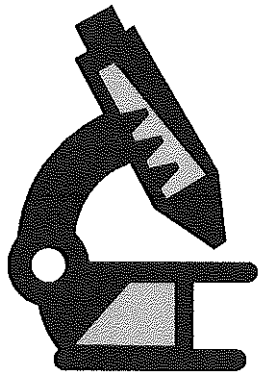


Northern Virginia Regional Science & Engineering Fair

Category Awards 2024



Holly Krull
Category Judge Coordinator

Dat Le
Fair Director

Michele Lombard
Assistant Fair Director

NORTHERN VIRGINIA REGIONAL SCIENCE & ENGINEERING FAIR

March 2, 2024

CATEGORY AWARDS

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Project Number	Name	School
<i>1st Place</i>		
<u>Animal Sciences</u>		
6 AS 100	Lerch, Maxwell	Jefferson
8 AS 103	Knauer, Nate	Gunston
9 AS 106	Brooke, Josephine	Yorktown
<u>Behavioral and Social Sciences</u>		
10 BE 204	Brodsky, Anna	H-B Woodlawn
<u>Biochemistry</u>		
7 BI 300	Kelley, McKenzie	Swanson
8 BI 301	Erwin, Margaret	Dorothy Hamm
<u>Chemistry</u>		
7 CH 404	Piester, Daniel	Gunston
8 CH 415	Saperstein, Margaret	Swanson
9 CH 421	Freeman, Sarah	Washington-Liberty
9 CH 422	Giambalvo, John	Yorktown
9 CH 424	Mulder, Malena	Alexandria City HS
10 CH 428	Qadir, Zaineb	Yorktown
12 CH 434	Tong, Brian Tiansheng; Huang, Meixuan; Xu, Shengying	Veritas

Project Number	Name	School
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1st Place

Engineering

8 EN	507	Leaning, Alexandra	Gunston
8 EN	510	Seyran, Zeynep; Komlodi, Kira	Jefferson
10 EN	526	Espiritu, Arianna; Hettinger, Grace	Alexandria City HS

Environmental and Earth Sciences

8 EV	609	Wells, Cassidy	Williamsburg
9 EV	613	Hearding, Reese	Alexandria City HS
9 EV	614	Klancnik, Sara	Washington-Liberty
9 EV	616	Yimer, Sabrina	Washington-Liberty
10 EV	617	Ackleson, Emma	Washington-Liberty
10 EV	619	Kambhampaty, Kedar	Washington-Liberty
11 EV	623	Beaumont, Nicola	H-B Woodlawn
11 EV	624	Liu, Ziyin (Daniel)	Episcopal

Mathematics and Computer Science

8 MC	701	Mirabile, Mason	Williamsburg
11 MC	708	Song, Sicheng	Episcopal

Medical and Health Sciences

11 ME	811	Mohanty, Anna	Washington-Liberty
12 ME	813	Bartrum, Olivia	Wakefield

<u>Project Number</u>	<u>Name</u>	<u>School</u>
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1st Place

Microbiology

8 MI 901	Ghosh, Sid	Williamsburg
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Physics and Astronomy

7 PH 1001	Ayalew, Maedot	Kenmore
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9 PH 1017	Moran-Uriona, Tomas	Washington-Liberty
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10 PH 1022	Leighton, Declan	Yorktown
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Plant Sciences

7 PS 1101	D'Amico, Alessandra	Swanson
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7 PS 1105	Asnake, Harott; Gonzalez, Alison	Patrick Henry
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10 PS 1121	Fiorino, Anthony; DelVecchio, Caleb	Washington-Liberty
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Project Number	Name	School
<i>2nd Place</i>		
<u>Animal Sciences</u>		
7 AS 101	Cordts, Gemma; Esquivias, Joselyn	George Washington
8 AS 104	Weber, Ryan	Hammond
8 AS 105	Awotwi, Lysette; Andrade, Vanessa; Munoz, Mia	Jefferson
10 AS 107	Check, Ava	Yorktown
<u>Behavioral and Social Sciences</u>		
8 BE 201	Matthews, Leah	Hammond
9 BE 202	Schildknecht, Ingrid	Alexandria City HS
11 BE 205	Marcy, Ava; Powers, Olivia	Alexandria City HS
<u>Biochemistry</u>		
8 BI 302	Siddiqi, Husna	Hammond
9 BI 303	Rahim, Inaya	Washington-Liberty
<u>Chemistry</u>		
6 CH 400	Pearson, Amelia	Swanson
8 CH 414	Park, Thomas	Swanson
9 CH 420	Day, Chloe	Yorktown
9 CH 425	Wielechowski, Teagan	Yorktown
10 CH 427	Goody, Claire	Washington-Liberty
10 CH 430	Snyder, Elliana	Washington-Liberty
10 CH 431	Craine, Isabel; Schuerhoff, Cate	Alexandria City HS

Project Number	Name	School
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2nd Place

Engineering

8 EN 503	Carpenter, Kylie	Williamsburg
9 EN 515	Fredricks, McKenna	Yorktown
11 EN 527	Bahrambegi, Cyrus	H-B Woodlawn

Environmental and Earth Sciences

7 EV 603	Zee, Rebecca	Kenmore
7 EV 604	Hsu, Eowyn; Hsu, Esme	Dorothy Hamm
8 EV 606	Chudiwale, Arya	Dorothy Hamm
8 EV 608	Kuhn, Lorien	Hammond
9 EV 611	Abdelbagi, Amna	Arlington Tech
9 EV 612	Amundson, Clara	Yorktown
9 EV 615	Organek, Noa	Alexandria City HS
10 EV 618	Chudiwale, Vedica	Washington-Liberty

Mathematics and Computer Science

9 MC 705	Vasisht, Janak	H-B Woodlawn
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Medical and Health Sciences

8 ME 801	Menta, Rahil	Williamsburg
10 ME 804	Batenhorst, Maya	Yorktown
10 ME 805	Lach-Hab, Nadia	Washington-Liberty
11 ME 812	Schiaffino, Elizabeth	Wakefield

Project Number	Name	School
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2nd Place

Microbiology

10 MI	910	Madison, Kaitlin	Washington-Liberty
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Physics and Astronomy

6 PH	1000	Garcia, Ethan	Gunston
8 PH	1006	Lorenzen-Schmidt, Luca	George Washington
9 PH	1014	Burks, Thomas	Alexandria City HS
10 PH	1019	Chistolini, John	Yorktown
10 PH	1023	Monroy, Sebastian	Washington-Liberty

Project Number	Name	School
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2nd Place

Plant Sciences

7 PS 1103	Nunez, Annabela	Kenmore
7 PS 1107	Yoon, Alex; Scott, Sylvia	George Washington
8 PS 1108	Gallagher, James	Swanson
8 PS 1109	Gunter, June	George Washington
8 PS 1111	Normington, Catherine	Jefferson
8 PS 1112	Phi, Duc	Williamsburg
8 PS 1113	Purdy, Elijah	Swanson
8 PS 1115	Camey Gomez, Sarai; Baba, Nina	Jefferson
9 PS 1117	Heatherington, Declan	Alexandria City HS
9 PS 1118	Hogan, Connor	Washington-Liberty
10 PS 1122	Soisuvann, Daisy; Duss, Nadja	Alexandria City HS
11 PS 1123	Dezfulian, Luka	Yorktown

Project Number	Name	School
3rd Place		
<u>Behavioral and Social Sciences</u>		
9 BE 203	Shewchuk, Abigail; Lester, Siena	Alexandria City HS
12 BE 206	Dong, Katherine Yiting; Jin, Hao; Peng, Hui	Veritas
<u>Biochemistry</u>		
9 BI 304	Hunnicut, Lucy; Bisrat, Leyat	Alexandria City HS
<u>Chemistry</u>		
7 CH 408	Pineda Sarmiento, Andre; Bartels, William; Raver, James	Hammond
8 CH 416	Beaulieu, Gabriela; Busigo, Marlana	Gunston
9 CH 419	Broadway, Sunny	Alexandria City HS
9 CH 426	Denton, Lilah; Combs, Juliana	Wakefield
10 CH 429	Regen, Suzanne	Alexandria City HS
<u>Engineering</u>		
8 EN 505	Hardwick, Margaret	Dorothy Hamm
9 EN 516	Pines, Asher	Yorktown
9 EN 519	Tarpley, Michael	H-B Woodlawn
10 EN 522	Hogans, Catherine	Washington-Liberty

Project Number	Name	School
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3rd Place

Environmental and Earth Sciences

6 EV	600	Nizami, Arooj	Patrick Henry
8 EV	607	Duckworth, Sullivan	Kenmore
10 EV	620	Lee, Caroline	Washington-Liberty
10 EV	621	Taimanglo, Sol	Alexandria City HS

Mathematics and Computer Science

10 MC	706	O'Reilly, Brendan	Yorktown
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Medical and Health Sciences

8 ME	800	Foerster, Nolan	Jefferson
9 ME	802	Sirak, Sam	Alexandria City HS
10 ME	807	Muhammad, Khamille	Alexandria City HS
10 ME	808	South, Caroline	Washington-Liberty

Microbiology

7 MI	900	Caparas, Paige	Williamsburg
9 MI	905	Hengst, Sadie	Washington-Liberty
9 MI	906	Normington, Beckett	Washington-Liberty
9 MI	907	Olson, Ula	Arlington Tech
10 MI	909	Hassen, Nadia	Washington-Liberty

Project Number	Name	School
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3rd Place

Physics and Astronomy

7 PH 1002	Hatchl, Carly	Swanson
8 PH 1003	Garcia Mogollon, Miranda	Gunston
8 PH 1004	Herrick, Sam	Swanson
8 PH 1008	Totten, Credence	Dorothy Hamm
8 PH 1009	Vajjhala, Kavya	George Washington
8 PH 1012	Wendell, Benjamin; Hailey, Preston	Swanson
9 PH 1016	Mathew, Nicholas	Washington-Liberty

Plant Sciences

7 PS 1100	Capiaux, Flora	Kenmore
7 PS 1102	Hirschfield, Leyla	Kenmore
7 PS 1104	Tran, Y-Lan	Williamsburg
7 PS 1106	Kirwin, Nandini; Hernandez, Miqueas	H-B Woodlawn
8 PS 1110	Karlton, James	Swanson
8 PS 1114	Puri, Leikha	Dorothy Hamm
9 PS 1119	Schofield, Caroline	Alexandria City HS
9 PS 1120	Schwentker, Claire	Washington-Liberty

Project Number	Name	School
<i>Honorable Mention</i>		
<u>Behavioral and Social Sciences</u>		
7 BE 200	Turner, Olivia	H-B Woodlawn
<u>Biochemistry</u>		
10 BI 305	Eclarinal, Elise; Madigan, Michael	Wakefield
<u>Chemistry</u>		
7 CH 401	Atewologun, Corsen	Jefferson
7 CH 402	Ganzorig, Aranz	Swanson
7 CH 403	Nyambayar, Saruul	Swanson
7 CH 405	Ramboz, Gavin	Kenmore
7 CH 406	Sibley, Kayla	Kenmore
7 CH 407	Choi, Olivia; Carney, Abigail	Dorothy Hamm
8 CH 409	Hazlett, Amelia	George Washington
8 CH 410	McCaughan, Benjamin	Gunston
8 CH 411	Netto, Sofia	Gunston
8 CH 412	O'Neil-Vira, Ishaan	George Washington
8 CH 413	Pamulapati, Reve	Dorothy Hamm
8 CH 417	Goldhirsch, Lucy; Gwilliam, Laura-Kate	Gunston
8 CH 418	Temprosa, Noah; Haiki, Tahar	Hammond
10 CH 432	Dong, Yufan; Gao, Jiayin; Li, Yanrong	Veritas
11 CH 433	Deng, Haonan; Li, Tianjun; Xu, Jenny	Veritas

Project Number	Name	School
<i>Honorable Mention</i>		
<u>Engineering</u>		
7 EN 500	Jones, Jackson	Kenmore
7 EN 501	Owens, Eamon	George Washington
7 EN 502	Smith, Edward	Dorothy Hamm
8 EN 504	Fenster, Esther	Williamsburg
8 EN 506	Harris, Brendan	Swanson
8 EN 508	Shaw, Ryan	Kenmore
8 EN 509	Silva, Christian-Delfin	Hammond
9 EN 511	Ayele, Efrata	Alexandria City HS
9 EN 512	Cohen, Gabriel	Yorktown
9 EN 513	Fitzgerald, Maya	Alexandria City HS
9 EN 514	Flashberg, Natalie	Washington-Liberty
9 EN 517	Sun, Juyeng	Washington-Liberty
9 EN 518	Tappan, Gabrielle	Alexandria City HS
9 EN 520	Kwan, Alexander; Kwan, Benjamin	Washington-Liberty
10 EN 521	Burden, Owen	Alexandria City HS
10 EN 523	Kiesel, Emily	Washington-Liberty
10 EN 524	Miller, Andrew	Yorktown

Project Number	Name	School
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Honorable Mention

Environmental and Earth Sciences

7 EV	601	Lieberman, Cameron	Kenmore
7 EV	602	Ludlow, Wren	H-B Woodlawn
10 EV	622	McMillan, Alex; Katz, Sofia	Alexandria City HS

Mathematics and Computer Science

9 MC	702	Desai, Suhani	Yorktown
9 MC	703	Docena, Jacob Oliver	Washington-Liberty
9 MC	704	Finnegan, Sean	Arlington Tech
10 MC	707	Stansbury, Devesh	Washington-Liberty

Medical and Health Sciences

9 ME	803	White, Peyton	Alexandria City HS
10 ME	806	Ladewig, Madeline	Yorktown
10 ME	809	Uddin, Maqsuda	Wakefield
10 ME	810	Maguire, Ina; Logsdon, Cole	Wakefield

Project Number	Name	School
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Honorable Mention

Microbiology

8 MI	902	Ghosh, Sophia	Williamsburg
9 MI	903	Coyle, Hannah	Washington-Liberty
9 MI	904	Garcia Jimenez, Zoe	Alexandria City HS
9 MI	908	Putchakayala, Dylan	Yorktown
10 MI	911	McPhillips-DeFilippi, Bellum	Washington-Liberty
10 MI	912	Mohamed, Aya	Alexandria City HS

Physics and Astronomy

8 PH	1005	Hii, Ung-Ben	Williamsburg
8 PH	1007	Oberkirsch, Purvi	Gunston
8 PH	1010	Williams, James	Swanson
8 PH	1011	Yassin, Haya	Hammond
9 PH	1013	Barua, Preontee	Wakefield
9 PH	1015	Coulby, Lillian	Alexandria City HS
9 PH	1018	Parment, William	Wakefield
10 PH	1020	Iov, Sebastian	Alexandria City HS
10 PH	1021	Kaldahl, Julia	Wakefield
10 PH	1024	Vena, Allegra	Wakefield

2024 Thermo Fisher Junior Innovators Challenge

PROJECT	NAME	SCHOOL
8 AS 103	Nate Knauer	Gunston
7 BI 300	McKenzie Kelley	Swanson
7 CH 404	Daniel Piester	Gunston
8 CH 415	Margaret Saperstein	Swanson
8 EN 507	Alexandra Leaning	Gunston
8 EN 510	Zeynep Seyran & Kira Komlodi	Jefferson
8 EV 609	Cassidy Wells	Williamsburg
8 MC 701	Mason Mirabile	Williamsburg
7 PH 1001	Maedot Ayalew	Kenmore
7 PS 1101	Alessandra D'Amico	Swanson
7 PS 1105	Harott Asnake & Alison Gonzalez	Patrick Henry

RECOMMENDATIONS FOR VIRGINIA STATE SCIENCE & ENGINEERING FAIR 2024

PROJECT	NAME	SCHOOL
9 AS 106	Josephine Brooke	Yorktown
10 BE 204	Anna Brodsky	H-B Woodlawn
12 CH 434	Brian Tiansheng Tong, Meixuan Huang & Shengying Xu	Veritas Collegiate Academy
10 EN 526	Arianna Espiritu & Grace Hettinger	Alexandria City HS
10 EV 617	Emma Ackleson	Washington-Liberty
10 EV 619	Kedar Kambhampaty	Washington-Liberty
11 EV 623	Nicola Beaumont	H-B Woodlawn
11 MC 708	Sicheng Song	Episcopal
11 ME 811	Anna Mohanty	Washington-Liberty
12 ME 813	Olivia Bartrum	Wakefield
9 PH 1017	Tomas Moran-Uriona	Washington-Liberty
10 PH 1022	Declan Leighton	Yorktown
10 PS 1121	Anthony Fiorino & Caleb DeVecchio	Washington-Liberty

BEST OF FAIR 2024

GRADES 6, 7 & 8

Maedot Ayalew
Kenmore

*The Effects of Seasonal Variation on the Kinematics of Coronal Mass Ejections
Using the Solar and Heliospheric Observatory Satellite*

GRAND PRIZE AWARDEES

Olivia Bartrum
Wakefield

*Harnessing the Signalosome to Enhance Ex-Vivo Generation
of Tumor Antigen-Specific T-Cells*

and

Anna Mohanty
Washington-Liberty

*Alcott: A Convolutional Neural Network to Predict Drug Target
Binding Affinity in HIV-1 Neural Infection Treatment*

ALTERNATE AWARDEE

Declan Leighton
Yorktown

*The Effect of Voltage and Nozzle Size on the Force Generated
by Radial Magnetohydrodynamic Drive*