

2024 National Finals Results

Tharptown High School of Russellville, Alabama took home the top prize at the 2024 National Finals on May 19, 2024 at Great Meadow in the The Plains, Va. Tharptown High School will go on to represent the United States in the International Rocketry Challenge at the Farnborough International Airshow in July 2024.

In all, a record-breaking 922 teams from 45 states competed in the 2024 American Rocketry Challenge. Students designed, built, and launched rockets to exacting requirements as they competed for more than \$100,000 in cash and prizes. Below are the results for this year's National Finals, as well as the Presentation and Marketing Competitions.

The top twenty-five finishers receive an invitation to participate in NASA's Student Launch initiative to continue their exploration of rocketry with high-powered rockets and challenging mission parameters.

Check out the full results below:

2024 National Finals: Top 10 Teams

Search:

Place ↕	Prize ↕	Team Number ↕	School/Organization ↕	City ↕	State ↕	Flight 1 ↕	Flight 2 ↕	Total ↕
1	\$20,000	24-0688	Tharptown High School	Russellville	AL	3	1	4
2	\$15,000	24-0694	Spring Grove Area Middle School	Spring Grove	PA	5	2	7
3	\$12,500	24-0428	AIAA Orange County Section Team 1	Irvine	CA	7.32	6.72	14.04
4	\$10,000	24-1659	Festus High School	Festus	MO	9	13	22
5	\$7,500	24-0140	Muscle Shoals High School Team 1	Muscle Shoals	AL	8.28	15.32	23.6
6	\$3,500	24-0009	North Marion High School	Farmington	WV	19.76	5.12	24.88

Place	Prize	Team Number	School/Organization	City	State	Flight 1	Flight 2	Total
7	\$2,500	24-0595	Hardin Valley Academy Team 1	Knoxville	TN	7.08	18.56	25.64
8	\$2,500	24-0405	Harmony Science Academy El Paso Team 1	El Paso	TX	14.88	13.36	28.24
9	\$2,500	24-1494	Butler County 4-H	Cincinnati	OH	13	17.52	30.52
10	\$1,500	24-0506	Stony Brook School	Stony Brook	NY	12.52	20	32.52

Showing 1 to 10 of 10 entries

Each school or organization for teams 1-5 also receives \$1,000. Each school or organization for teams 6-10 also receives \$500.

2024 Best First Time Finalist

Show entries

Search:

Team Number	School	City	State	Flight 1	Flight 2	Total Score
24-0506	Stony Brook School	Stony Brook	New York	12.52	20	32.52

Showing 1 to 1 of 1 entries

◀ Previous Next ▶

Awarded to the best team who is competing in the National Finals for the first time. The team wins \$2,500 and the school receives \$500.

2024 Presentation Competition

Place	Prize	Team Number	Team Name	City	State
1	\$3,000	24-0541	St. Monica's Home School	Ridgefield	CT
2	\$1,500	24-0941	Milpitas High School	Milpitas	CA
Rookie	\$500	24-0053	Girl Scout Troop 76141	Plainfield	IL

Awarded to the team who best showed off their hard work, explained their design, and demonstrated how test flight data drove decision making.

2024 Marketing Competition

Place	Prize	Team Number	Team Name	City	State
1	\$3,000	24-0237	Olympia High School	Olympia	WA
2	\$1,500	24-0412	Shrewsbury High School	Shrewsbury	MA

Awarded to the team who created the best video that generated excitement about their team, the American Rocketry Challenge, and aerospace and space exploration.

The winning team also wins a custom logo and poster by 2046 Design, and custom merch featuring the team's new logo.

2024 National Finals Flight Results

Search:

Place	Team Number	Team Name	City	State	Flight 1	Flight 2	Total
1	24-0688	Tharptown High School	Russellville	AL	3	1	4
2	24-0694	Spring Grove Area Middle School	Spring Grove	PA	5	2	7
3	24-0428	AIAA Orange County Section Team 1	Irvine	CA	7.32	6.72	14.04
4	24-1659	Festus High School	Festus	MO	9	13	22
5	24-0140	Muscle Shoals High School Team 1	Muscle Shoals	AL	8.28	15.32	23.6

Place	Team Number	Team Name	City	State	Flight 1	Flight 2	Total
6	24-0009	North Marion High School	Farmington	WV	19.76	5.12	24.88
7	24-0595	Hardin Valley Academy Team 1	Knoxville	TN	7.08	18.56	25.64
8	24-0405	Harmony Science Academy El Paso Team 1	El Paso	TX	14.88	13.36	28.24
9	24-1494	Butler County 4-H	Cincinnati	OH	13	17.52	30.52
10	24-0506	Stony Brook School	Stony Brook	NY	12.52	20	32.52
11	24-0833	Heuvelton Central School	Heuvelton	NY	13.28	24	37.28
12	24-2040	Civil Air Patrol Squadron 64	La Verne	CA	8.2	32.36	40.56
13	24-0429	AIAA Orange County Section Team 2	Irvine	CA	8	35.6	43.6
14	24-0533	Richards R5 School District Team 1	West Plains	MO	8	36.2	44.2
15	24-0262	Interlake High School Team 1	Bellevue	WA	11.32	34.24	45.56
16	24-0876	Richards R5 School District Team 2	West Plains	MO	14	33	47
17	24-1222	The Cornerstone School Team 1	Ocala	FL	10	38	48
18	24-1154	Carmel Valley STEM Youth Team 2	San Diego	CA	15.16	34.44	49.6
19	24-1028	Notre Dame Academy	Los Angeles	CA	13.12	44.16	57.28
20	24-0784	Oregon Episcopal School	Portland	OR	15.72	47	62.72
21	24-0211	SmilingTree	Sammamish	WA	8.32	65	73.32
22	24-2050	Maharishi School	Fairfield	IA	6	75.72	81.72
23	24-1423	Oconee County High School	Watkinsville	GA	11	72.52	83.52
24	24-0618	Animas High School	Durango	CO	18	DQ	18

Showing 1 to 24 of 24 entries

The top twenty-five finishers receive an invitation to participate in NASA's Student Launch initiative to continue their exploration of rocketry with high-powered rockets and challenging mission parameters.

Scores Based on Single Flight

Search:

Place	Team Number	Team Name	City	State	Flight 1	Flight 2	Total
25	24-1039	Northridge Preparatory School	Niles	IL	22.92		22.92
25	24-1606	Odle Middle School Team 1	Bellevue	WA	22.92		22.92
27	24-0515	St. John Paul II	Huntsville	AL	23		23
28	24-0021	East Fairmont Middle School Team 2	Fairmont	WV	25.32		25.32
29	24-0888	Air Capital STEM Club	Wichita	KS	26.84		26.84
30	24-0296	Anderson 1 & 2 Career & Technology Center	Williamston	SC	26.96		26.96
31	24-0735	Medford Lakes Neeta School Team 1	Medford Lakes	NJ	28.56		28.56
32	24-0897	East Aurora High School	East Aurora	NY	29		29
33	24-0019	East Fairmont Middle School Team 1	Fairmont	WV	30.84		30.84
34	24-0541	St. Monica's Homeschool	Ridgefield	CT	32.08		32.08
35	24-0710	Master Arts Festival	Hawaiian Gardens	CA	32.48		32.48
36	24-0419	All Saints Episcopal School Team 1	Fort Worth	TX	33.72		33.72
37	24-0074	FIRE STEM	Upper Marlboro	MD	34		34
38	24-0473	Russellville High School	Russellville	AL	34.4		34.4
39	24-1177	Neuqua Valley High School Team 1	Naperville	IL	34.44		34.44
39	24-1209	Newport High School Team 1	Bellevue	WA	34.44		34.44
41	24-0596	Hardin Valley Academy Team 2	Knoxville	TN	34.52		34.52
42	24-0966	All Saints' Episcopal School Team 2	Fort Worth	TX	34.76		34.76
43	24-1284	Oakton High School Team 1	Vienna	VA	37.88		37.88
44	24-0053	Girl Scouts Troop 76141	Plainfield	IL	41.84		41.84

Place	Team Number	Team Name	City	State	Flight 1	Flight 2	Total
45	24-0367	Homestead High School	Fort Wayne	IN	42.32		42.32
46	24-0388	Young Engineers in Action	La Palma	CA	44.16		44.16
47	24-0263	Interlake High School Team 2	Bellevue	WA	44.28		44.28
48	24-1769	Clarence High School	Clarence	NY	44.68		44.68
49	24-0412	Shrewsbury High School	Shrewsbury	MA	45.68		45.68
50	24-2134	Francis C. Hammond Middle School	Alexandria	VA	46.2		46.2
51	24-0690	Spring Grove Area High School	Spring Grove	PA	49		49
52	24-1607	Odle Middle School Team 2	Bellevue	WA	49.52		49.52
53	24-1717	Bickyard Collaborative, Inc.	Andover	MA	50		50
54	24-0415	Harmony Science Academy El Paso Team 2	El Paso	TX	50.28		50.28
55	24-0410	Lawrence County High School	Moulton	AL	51.64		51.64
56	24-1233	Seabrook Intermediate School Team 1	Seabrook	TX	53.12		53.12
57	24-1643	Bronx High School of Science Team 2	New York	NY	53.88		53.88
58	24-0736	Explorer Post 1010	Rockville	MD	54.52		54.52
59	24-0401	Victory Christian Center Middle School	Charlotte	NC	55		55
60	24-1307	Northwest High School	Justin	TX	56		56
61	24-1200	Onteora Central Schools	Boiceville	NY	56.84		56.84
62	24-0232	Seckman Middle School	Imperial	MO	59.56		59.56
63	24-0712	Waubonsie Valley High School	Aurora	IL	60.92		60.92
64	24-1567	duPont Manual High School Team 2	Louisville	KY	61		61
65	24-1473	The Vanguard School Team 1	Colorado Springs	CO	61.2		61.2
66	24-1468	South Brunswick High School	Monmouth Junction	NJ	61.56		61.56

Place	Team Number	Team Name	City	State	Flight 1	Flight 2	Total
67	24-1311	STEMZ Education	Redmond	WA	62.16		62.16
68	24-0502	Noe Middle School	Louisville	KY	68.72		68.72
69	24-1656	The Vanguard School Team 2	Colorado Springs	CO	69.92		69.92
70	24-0418	Muscle Shoals High School Team 2	Muscle Shoals	AL	73.56		73.56
71	24-0153	AIAA Plainfield-Naperville IL Section	Plainfield	IL	73.64		73.64
72	24-1324	Seabrook Intermediate School Team 2	Seabrook	TX	74.04		74.04
73	24-0849	Newark Memorial High School	Newark	CA	78.12		78.12
74	24-0538	Bronx High School of Science Team 1	New York	NY	79.4		79.4
75	24-0958	Immaculate Heart of Mary School	Cuyahoga Falls	OH	79.56		79.56
76	24-0654	Center Senior High School	Kansas City	MO	81.68		81.68
77	24-1239	Newport High School Team 2	Bellevue	WA	81.72		81.72
78	24-1778	Oakton High School Team 2	Vienna	VA	91.32		91.32
79	24-0206	Fox Senior High School	Arnold	MO	93.8		93.8
80	24-0094	Wheaton High School	Rockville	MD	96.76		96.76
81	24-0113	Victory Christian Center High School	Charlotte	NC	103.2		103.2
82	24-0329	Presidio High School Team 1	Presidio	TX	104.08		104.08
83	24-1223	The Cornerstone School Team 2	Ocala	FL	107.4		107.4
84	24-0391	Edison Academy Magnet School	Edison	NJ	117.24		117.24
85	24-1890	Immanuel Christian High School	Alexandria	VA	125.28		125.28
86	24-0745	Medford Lakes Neeta School Team 2	Medford Lakes	NJ	135.12		135.12

Place	Team Number	Team Name	City	State	Flight 1	Flight 2	Total
87	24-1507	duPont Manual High School Team 1	Louisville	KY	190.08		190.08
88	24-1675	Albuquerque Institute for Mathematics and Science	Albuquerque	NM	202.8		202.8
89	24-0903	Presidio High School Team 2	Presidio	TX	259.48		259.48
90	24-2212	Irvington High School	Fremont	CA	442.48		442.48
91	24-0384	American Youth Soccer Organization Region 174	Granada Hills	CA	DQ		DQ
91	24-1040	Carmel Valley STEM Youth Team 1	San Diego	CA	DQ		DQ
91	24-0408	Center for Advanced Technical Studies	Chapin	SC	DQ		DQ
91	24-0668	Commonwealth Charter Academy	Harrisburg	PA	DQ		DQ
91	24-0957	LISA Academy North Middle-High School	North Little Rock	AR	DQ		DQ
91	24-1179	Neuqua Valley High School Team 2	Naperville	IL	DQ		DQ
91	24-1696	Skyline High School	Issaquah	WA	DQ		DQ
98	24-1549	Coleman High School	Coleman	TX	DNF		DNF
98	24-0999	McCracken County 4-H	Paducah	KY	DNF		DNF
98	24-0811	Thompson High School	Alabaster	AL	DNF		DNF

Showing 1 to 76 of 76 entries