

2023 WESO Event Score Data Summary.

The Science Olympiad and WESO are devoted to improving the quality of science education, increasing student interest in science, and providing recognition for outstanding achievement in science education. Our primary goals are for the students to learn and have fun.

The WESO board recognizes, however, that some level of feedback on placement is helpful to all schools, not just those that earned medals. We have provided placements to each school through Avogadro. Additionally, we are providing some information on the scoring for the individual events (average score, winning score, 5th place score - etc; NOT individual team scores). We expect this may be more useful for building type events than test events (i.e., it is better to know what the winning Aerodynamics score was than the Feathered Friends score, as the former metric might be used again and the latter is very dependent on actual test questions).

We hope to see you all again for WESO 2024!

2nd grade	Aerodynamics	Barge Building	Feathered Friends	iRobot	Map Reading	Mystery Architecture	On Target	Pentathlon	Read It, Build It	The Human Machine	Zip-A-Dee-Doo-Dah*
Average	14.5	520.5	28	30.6	32	56.3	254	263.9	42.3	31.7	10.5
Median	13.5	525.0	29	31.0	27	53.6	237	245.5	43.2	32.5	11.0
Std. Dev.	5.1	260.4	5.0	9.7	21	29.0	133	99.2	8.9	11.6	5.9
Winning Score	26.5	1019.0	35	47.0	67	107.9	97	140.1	51.3	51.0	1 (0.032 s)
5th Place	17.1	673.0	31.2	36.5	45	83.3	184	203.3	47.2	37.1	5 (0.164 s)
Honorable Mention Cutoff	15.27	599	30.1	33.5	27	74.9	232	215.1	44.3	33	8 (0.356 s)

3rd grade	Aerodynamics	Barge Building	Feathered Friends	iRobot	Map Reading	Mystery Architecture	On Target	Pentathlon	Read It, Build It	The Human Machine	Zip-A-Dee-Doo-Dah*
Average	14.63	470	23	32	37	61.4	248	201.5	52.47	44	11
Median	14.58	466	22	33	33	61.3	212	202.9	53.21	45.8	12
Std. Dev.	4.14	201	6	9.7	19	35.4	153	71.3	5.59	9.7	6
Winning Score	21.69	720	32	47	72	128.7	63	105.0	60.31	55	1 (0.023 s)
5th Place	17.60	630	27	38	48	87.5	134	147.5	57.11	52	5 (0.105 s)
Honorable Mention Cutoff	15.90	558	24	36	33	82.9	151	185.8	54.31	47	8 (0.182 s)

4th grade	Aerodynamics	Feathered Friends	iCompute	Mystery Architecture	On Target	Pentathlon	Potions	Write It, Build It	Zip-A-Dee-Doo-Dah*
Average	15.43	18	25	83.8	156	284.4	53	15.7	12.9
Median	15.12	18	24	83.0	143	294.6	54	14.2	13.9
Std. Dev.	4.00	4.6	8.3	31.4	88	99.3	11	9.4	6.2
Winning Score	23.95	24	44	145.1	34	129.0	69	33.0	2.4 (0.017 s)
5th Place	16.53	21	28	109.0	98	223.4	63	23.1	7.2 (0.044 s)
Honorable Mention Cutoff	15.12	19	26	102.4	109	272.1	60	16.0	8.2 (0.218 s)

5th grade	Aerodynamics	Feathered Friends	iCompute	Mystery Architecture	On Target	Pentathlon	Potions	Write It, Build It	Zip-A-Dee-Doo-Dah*
Average	14.20	17	26	96.3	169	279.4	60	18.0	9.68
Median	13.18	18	23	90.9	170	271.1	62	15.2	10.20
Std. Dev.	3.14	4.5	10.3	24.7	115	67.8	16	9.7	5.49
Winning Score	20.20	24	46	144.0	28	173.0	84	38.0	1.2 (0.334 s)
5th Place	15.62	20	34	112.5	71	249.4	73	25.0	5.2 (0.593 s)
Honorable Mention Cutoff	14.71	19	27	92.9	91	256.4	67	15.3	9.2 (0.719 s)

* We have included the Zip Line deviation from target time for the medal places. The Zip Event Score Metric uses rank ordering from Zip line and test