

Bridge Strength Results		Grade Categories	Max Measured Load (lb)	Max Calculated Load (lb)	Average Calculated Load (lb)	Average Reduction Factor	Min Reduction Factor
2019 Discover Engineering Results		1 to 3					
16 February - ZJ Loussac Library		4 to 6	498.00	52.80	52.80	0.11	0.11
Sponsor: UAA / ASCE		7 to 8	688.10	331.2	83.7	0.91	0.05
		9 to 12					

Index	Student Number	Grade Group	Name	Length Between 22-26 in (Y/N)	Width Between 3-5 in (Y/N)	Height within Tolerance (Y/N)	Mass (g)	Measured Applied Load (lbs)	Measured Ultimate Load (g)	Mass Reduction Factor	Calculated Load (lb)	Efficiency	Ranking & Notes
17	136	4 to 6	Elias Sexxon	y	y	n	460.5	498	225,888.82	0.11	52.8	52	1st place
33	71	7 to 8	Preston Lee	y	y	y	112.7	331.2	150,229.67	1.00	331.2	1333	1st place
37	180	7 to 8	Asa Utic	y	y	y	148.3	271.3	123,059.51	1.00	271.3	830	2nd place
36	179	7 to 8	Blake McDade	y	y	y	133.4	223.1	101,196.38	1.00	223.1	759	3rd place
3	10	7 to 8	John Cervana	y	y	y	118.3	205.5	93,213.16	1.00	205.5	788	
1	5	7 to 8	James Dixon	y	y	y	145.8	199.9	90,673.04	1.00	199.9	622	
46	88	7 to 8	Payton Hahn	y	y	y	147	194.1	88,042.21	1.00	194.1	599	
10	26	7 to 8	Jayelle Padron	y	y	y	122	167.9	76,158.10	1.00	167.9	624	
13	39	7 to 8	Logan Wong	y	y	y	143	167	75,749.86	1.00	167.0	530	
11	124	7 to 8	Addy Jones	y	y	y	146.7	131	59,420.55	1.00	131.0	405	
47	98	7 to 8	Destiny Delare	y	y	y	199.8	226	102,511.79	0.56	127.4	289	
43	82	7 to 8	Leslyn Giron	y	y	y	94	113.9	51,664.13	1.00	113.9	550	
38	183	7 to 8	Francis Santiago	y	y	y	225.3	256.9	116,527.78	0.44	113.9	229	
35	76	7 to 8	Vanessa Saunders	y	y	y	276	375.2	170,187.72	0.30	110.8	182	
42	186	7 to 8	Jayden Harrington	y	y	y	103.3	110.2	49,985.84	1.00	110.2	484	
55	213	7 to 8	Luke Helgeson	y	y	y	67.7	106.5	48,307.55	1.00	106.5	714	
23	57	7 to 8	Sammy Hermansen	y	y	y	98.9	100.5	45,586.00	1.00	100.5	461	
24	147	7 to 8	David Soane	y	y	y	140.2	95.11	43,141.14	1.00	95.1	308	
45	87	7 to 8	Caden West	y	y	y	127.1	94.9	43,045.88	1.00	94.9	339	
27	160	7 to 8	Kevin Chung	y	y	y	94	88.23	40,020.42	1.00	88.2	426	
34	177	7 to 8	Gabriel Novero	y	y	y	79.3	84.9	38,509.96	1.00	84.9	486	
49	95	7 to 8	Makayla Hartman	y	y	y	85.8	82.8	37,557.42	1.00	82.8	438	
6	23	7 to 8	Josie Achenbach	y	y	y	129.1	81.07	36,772.70	1.00	81.1	285	
40	79	7 to 8	Felicia Bacon	y	y	y	129.8	80.87	36,681.99	1.00	80.9	283	
32	70	7 to 8	Reece Tresnak	y	y	y	123	75.62	34,300.63	1.00	75.6	279	
7	119	7 to 8	Gavin Gaetos-Pugon	y	y	y	235.9	181.3	82,236.23	0.40	73.3	141	
53	208	7 to 8	Braxton Miller	y	y	y	149.5	71.6	32,477.19	1.00	71.6	217	
19	139	7 to 8	James Cook	y	n	y	120.5	69.67	31,601.75	1.00	69.7	262	
52	202	7 to 8	Camden Shasby	y	y	y	89	69.12	31,352.28	1.00	69.1	352	
22	143	7 to 8	Shane McDonald	y	y	y	58	65.32	29,628.63	1.00	65.3	511	
20	144	7 to 8	Alyssa Dimatulac	y	y	y	128.6	60.31	27,356.13	1.00	60.3	213	
44	84	7 to 8	Sumiko Ramos	y	y	y	124.9	58.13	26,367.30	1.00	58.1	211	
29	162	7 to 8	Devon Mosquito	y	y	n	196.8	100	45,359.20	0.58	58.1	134	
12	130	7 to 8	Lucas Bernsten-Choo	y	y	y	79.6	52.31	23,727.40	1.00	52.3	298	
39	78	7 to 8	Luisa Cuengco	y	y	y	60.2	51.28	23,260.20	1.00	51.3	386	
9	31	7 to 8	Jayden Poulsen	y	y	y	88.4	43.23	19,608.78	1.00	43.2	222	
21	47	7 to 8	Mardie Carpentero	y	y	y	68.1	43.22	19,604.25	1.00	43.2	288	
41	80	7 to 8	Joy Kim	y	y	y	138.3	41.17	18,674.38	1.00	41.2	135	
8	29	7 to 8	Jaeden Buenaflor	y	n	y	186.7	62.05	28,145.38	0.65	40.1	97	
2	106	7 to 8	Aspen Lennox	y	y	y	64.5	36.83	16,705.79	1.00	36.8	259	
16	32	7 to 8	Greyson Cano	y	y	y	329.3	171.3	77,700.31	0.21	35.5	49	
28	161	7 to 8	Richmar Manicult	y	y	y	63.1	34.77	15,771.39	1.00	34.8	250	
15	132	7 to 8	Aubrey Price	y	y	y	93	33.65	15,263.37	1.00	33.7	164	
26	149	7 to 8	McKaylie Luedde	y	y	y	689.8	688.1	312,116.66	0.05	32.5	21	
51	200	7 to 8	Grace Kim	y	y	n	62.8	31.44	14,260.93	1.00	31.4	227	
31	168	7 to 8	Alexander Mitchel	y	y	y	71	28.32	12,845.73	1.00	28.3	181	
18	137	7 to 8	Sione Siuol	y	y	y	47.1	27.99	12,696.04	1.00	28.0	270	
48	96	7 to 8	Ariana Reynold	y	y	n	128.8	26.6	12,065.55	1.00	26.6	94	
14	123	7 to 8	Micheal Melgar	y	y	y	54.3	23.04	10,450.76	1.00	23.0	192	
25	157	7 to 8	Abigail Childers	y	y	n	100.2	20.85	9,457.39	1.00	20.9	94	

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50	196	7 to 8	Jonathan Anunciacion	y	y	y	70.6	18.8	8,527.53	1.00	18.8	121	
54	212	7 to 8	Tyler Kipatrick	y	y	y	33.8	17.68	8,019.51	1.00	17.7	237	
4	110	7 to 8	Caleb Hasund	y	y	y	62.8	16.48	7,475.20	1.00	16.5	119	
30	67	7 to 8	Yoeth Xelaya	y	y	n	42.9	9.357	4,244.26	1.00	9.4	99	
5	112	7 to 8	Kyle Salanguit	y	y	y	17.8	5.597	2,538.75	1.00	5.6	143	
56			Faith Villaflores	y	y	n	56.5	47.9	21,727.06	1.00	47.9	385	