

Trial no.	Distance (cm)	mass (kg)	Unstretched' Spring Length (cm)
1	12.3	0.00	12.3
	12.2	0.05	12.3
	12.0	0.25	12.3
	11.7	0.50	12.3
	11.6	0.75	12.3
	10.8	1.00	12.3
	10.7	1.05	12.3
	10.6	1.20	12.3
	10.3	1.50	12.3
	10.0	2.00	12.3
	9.9	2.50	12.3
	9.7	3.00	12.3
	9.7	3.50	12.3
	9.5	4.00	12.3
	9.4	4.50	12.3
	9.1	5.00	12.3
	9.0	5.50	12.3
	9.0	6.00	12.3
2	12.3	0.00	12.3
	12.2	0.05	12.3
	11.9	0.25	12.3
	11.5	0.50	12.3
	11.2	0.75	12.3
	10.9	1.00	12.3
	10.8	1.05	12.3
	10.6	1.20	12.3
	10.1	1.50	12.3
	10.2	2.00	12.3
	10.2	2.50	12.3
	10.0	3.00	12.3
	9.6	3.50	12.3
	9.7	4.00	12.3
	9.4	4.50	12.3
	9.4	5.00	12.3
	9.2	5.50	12.3
	9.0	6.00	12.3
3	12.3	0.00	12.3
	12.2	0.05	12.3
	12.0	0.25	12.3
	11.5	0.50	12.3
	11.2	0.75	12.3
	10.9	1.00	12.3
	10.9	1.05	12.3
	10.4	1.20	12.3
	10.4	1.50	12.3
	10.0	2.00	12.3
	10.1	2.50	12.3
	9.8	3.00	12.3

4

9.6	3.50	12.3
9.5	4.00	12.3
9.3	4.50	12.3
9.4	5.00	12.3
9.2	5.50	12.3
8.9	6.00	12.3
12.3	0.00	12.3
12.1	0.05	12.3
12.0	0.25	12.3
11.5	0.50	12.3
11.2	0.75	12.3
10.0	1.00	12.3
10.9	1.05	12.3
10.5	1.20	12.3
10.5	1.50	12.3
10.3	2.00	12.3
10.1	2.50	12.3
10.0	3.00	12.3
9.8	3.50	12.3
9.5	4.00	12.3
9.4	4.50	12.3
9.4	5.00	12.3
9.2	5.50	12.3
8.9	6.00	12.3

Force (N)	Length of Compression (m)
0.0	0.000
0.5	0.001
2.5	0.003
4.9	0.006
7.4	0.007
9.8	0.015
10.3	0.016
11.8	0.017
14.7	0.020
19.6	0.023
24.5	0.024
29.4	0.026
34.3	0.026
39.2	0.028
44.1	0.029
49.0	0.032
53.9	0.033
58.8	0.033
0.0	0.000
0.5	0.001
2.5	0.004
4.9	0.008
7.4	0.011
9.8	0.014
10.3	0.015
11.8	0.017
14.7	0.022
19.6	0.021
24.5	0.021
29.4	0.023
34.3	0.027
39.2	0.026
44.1	0.029
49.0	0.029
53.9	0.031
58.8	0.033
0.0	0.000
0.5	0.001
2.5	0.003
4.9	0.008
7.4	0.011
9.8	0.014
10.3	0.014
11.8	0.019
14.7	0.019
19.6	0.023
24.5	0.022
29.4	0.025

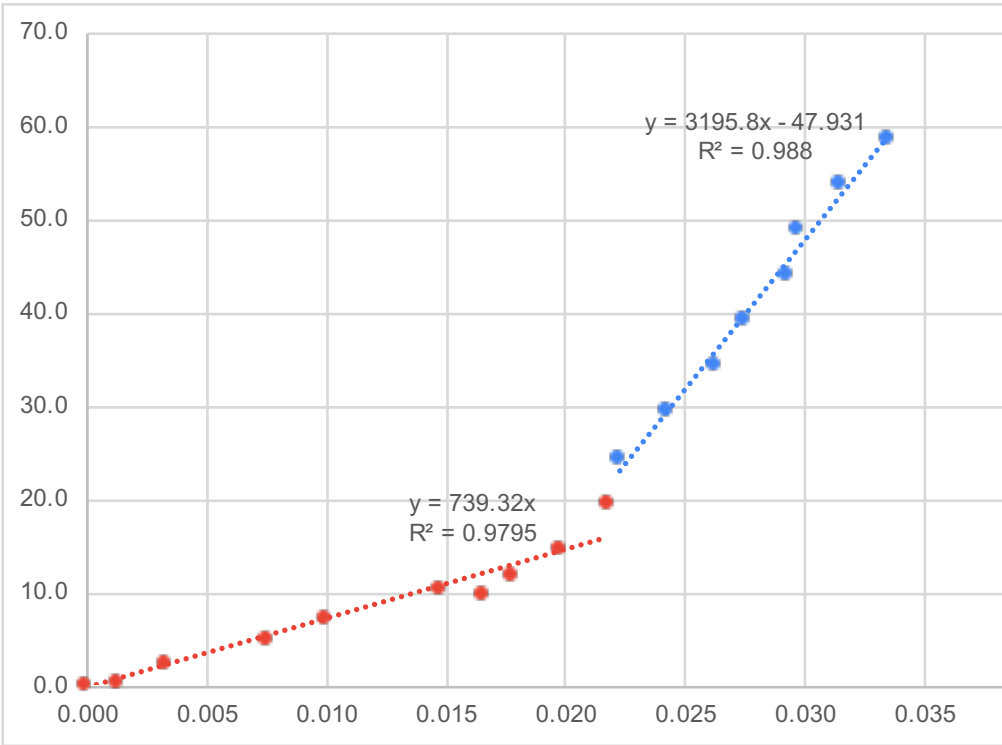
Force (N)	Length of Compre
0.0	0.000
0.5	0.001
2.5	0.003
4.9	0.006
7.4	0.007
9.8	0.015
10.3	0.016
11.8	0.017
14.7	0.020
19.6	0.023
24.5	0.024
29.4	0.026
34.3	0.026
39.2	0.028
44.1	0.029
49.0	0.032
53.9	0.033
58.8	0.033

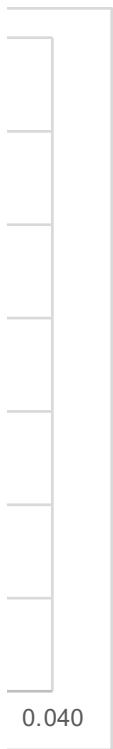
AVE - Compressio Force (N)	
0.000	0.0
0.001	0.5
0.003	2.5
0.008	4.9
0.010	7.4
0.017	9.8
0.015	10.3
0.018	11.8
0.020	14.7
0.022	19.6
0.022	24.5
0.024	29.4
0.026	34.3
0.028	39.2
0.029	44.1
0.030	49.0
0.032	53.9
0.034	58.8

34.3	0.027
39.2	0.028
44.1	0.030
49.0	0.029
53.9	0.031
58.8	0.034
0.0	0.000
0.5	0.002
2.5	0.003
4.9	0.008
7.4	0.011
9.8	0.023
10.3	0.014
11.8	0.018
14.7	0.018
19.6	0.020
24.5	0.022
29.4	0.023
34.3	0.025
39.2	0.028
44.1	0.029
49.0	0.029
53.9	0.031
58.8	0.034

Length of Compre Length of Compre Length of Compre AVE - Compression of Spring (m)

0.000	0.000	0.000	0.000
0.001	0.001	0.002	0.001
0.004	0.003	0.003	0.003
0.008	0.008	0.008	0.008
0.011	0.011	0.011	0.010
0.014	0.014	0.023	0.017
0.015	0.014	0.014	0.015
0.017	0.019	0.018	0.018
0.022	0.019	0.018	0.020
0.021	0.023	0.020	0.022
0.021	0.022	0.022	0.022
0.023	0.025	0.023	0.024
0.027	0.027	0.025	0.026
0.026	0.028	0.028	0.028
0.029	0.030	0.029	0.029
0.029	0.029	0.029	0.030
0.031	0.031	0.031	0.032
0.033	0.034	0.034	0.034





AVE - Compression of Spring (m)	Force (N)
0 ± 0.0005	0.0
0.0013 ± 0.0005	0.5
0.0033 ± 0.0005	2.5
0.0075 ± 0.0005	4.9
0.0100 ± 0.0005	7.4
0.0165 ± 0.0005	9.8
0.0148 ± 0.0005	10.3
0.0178 ± 0.0005	11.8
0.0198 ± 0.0005	14.7
0.0218 ± 0.0005	19.6
0.0223 ± 0.0005	24.5
0.0243 ± 0.0005	29.4
0.0263 ± 0.0005	34.3
0.0275 ± 0.0005	39.2
0.0293 ± 0.0005	44.1
0.0298 ± 0.0005	49.0
0.0315 ± 0.0005	53.9
0.0335 ± 0.0005	58.8

Force (N)	Length of Compression - Trial 1 (m)	Length of Compression - Trail 2 (m)
0.0	0.0000	0.0000
0.5	0.0010	0.0010
2.5	0.0030	0.0040
4.9	0.0060	0.0080
7.4	0.0070	0.0110
9.8	0.0150	0.0140
10.3	0.0160	0.0150
11.8	0.0170	0.0170
14.7	0.0200	0.0220
19.6	0.0230	0.0210
24.5	0.0240	0.0210
29.4	0.0260	0.0230
34.3	0.0260	0.0270
39.2	0.0280	0.0260
44.1	0.0290	0.0290
49.0	0.0320	0.0290
53.9	0.0330	0.0310
58.8	0.0330	0.0330

Length of Compression - Trial 3 (m)	Length of Compression - Trial 4 (m)
0.0000	0.0000
0.0010	0.0020
0.0030	0.0030
0.0080	0.0080
0.0110	0.0110
0.0140	0.0230
0.0140	0.0140
0.0190	0.0180
0.0190	0.0180
0.0230	0.0200
0.0220	0.0220
0.0250	0.0230
0.0270	0.0250
0.0280	0.0280
0.0300	0.0290
0.0290	0.0290
0.0310	0.0310
0.0340	0.0340

Trial no.	Distance (cm)	mass (kg)
1	12.3	0.00
	12.2	0.05
	12.0	0.25
	11.7	0.50
	11.6	0.75
	10.8	1.00
	10.7	1.05
	10.6	1.20
	10.3	1.50
	10.0	2.00
	9.9	2.50
	9.7	3.00
	9.7	3.50
	9.5	4.00
	9.4	4.50
	9.1	5.00
	9.0	5.50
	9.0	6.00
2	12.3	0.00
	12.2	0.05
	11.9	0.25
	11.5	0.50
	11.2	0.75
	10.9	1.00
	10.8	1.05
	10.6	1.20
	10.1	1.50
	10.2	2.00
	10.2	2.50
	10.0	3.00
	9.6	3.50
	9.7	4.00
	9.4	4.50
	9.4	5.00
	9.2	5.50
	9.0	6.00
3	12.3	0.00
	12.2	0.05
	12.0	0.25
	11.5	0.50
	11.2	0.75
	10.9	1.00
	10.9	1.05
	10.4	1.20
	10.4	1.50
	10.0	2.00
	10.1	2.50
	9.8	3.00
	9.6	3.50
	9.5	4.00
	9.3	4.50
	9.4	5.00
	9.2	5.50
	8.9	6.00
4	12.3	0.00

12.1	0.05
12.0	0.25
11.5	0.50
11.2	0.75
10.0	1.00
10.9	1.05
10.5	1.20
10.5	1.50
10.3	2.00
10.1	2.50
10.0	3.00
9.8	3.50
9.5	4.00
9.4	4.50
9.4	5.00
9.2	5.50
8.9	6.00