	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Your name		Date												
2	Partner's name														
3															
4	**Phys 1101/1120 - Richmond Campus**				**DISCLAIMER: These example data are purposefully**										
5	**Expt. 1: Uniform Linear Motion**				**inaccurate. You may test your spreadsheet equations**										
6					**for correctness using these values, but your real**										
7	**DATA**				**experimental values will be very different.**										
8															
9	**Accel. due to gravity**				**Time interval**										
10	**g (m/s^2)**	**dg (m/s^2)**	**dg/g**		**t (s)**	**dt (s)**	**dt/t**								
11	**9.81**	**0.01**	0.10%	1	**2**	0.02	1.00%								
12				2	**0.42**	0.0042	1.00%								
13	**Block height**			3	**0.33**	0.0033	1.00%								
14	**h (mm)**	**dh (mm)**	**dh/h**	4	**0.28**	0.0028	1.00%								
15	**10**	**0.03**	0.30%	5	**0.25**	0.0025	1.00%								
16				6	**0.23**	0.0023	1.00%								
17	**Base length**			7	**0.21**	0.0021	1.00%								
18	**b (cm)**	**db (cm)**	**db/b**	8	**0.195**	0.00195	1.00%								
19	**100**	**2**	2.00%												
20															
21	**Picket distance**														
22	**d (cm)**	**δd (cm)**	**δd/d**												
23	**6**	**0.1**	1.67%												
24															
25															
26	**CALCULATIONS**														
27															
28	**Block height**				**Accleration**				**Instantaneous time**				**Average velocity**		
29	**h (m)**	**dh (m)**	**dh/h**		**a (m/s^2)**	**da (m/s^2)**	**da/a**		**t_inst (s)**	**dt_inst (s)**	**(dt/t)_inst**		**v (m/s)**	**dv (m/s)**	**dv/v**
30	0.01	0.00003	0.30%		0.0981	0.0019865	2.02%	1	1	0.01	1.00%		0.03	0.000583	1.94%
31								2	2.21	0.02011	0.91%		0.142857	0.002777	1.94%
32	**Base length**							3	2.585	0.020503	0.79%		0.181818	0.003534	1.94%
33	**b (m)**	**db (m)**	**db/b**					4	2.89	0.020748	0.72%		0.214286	0.004165	1.94%
34	1	0.02	2.00%					5	3.155	0.020927	0.66%		0.24	0.004665	1.94%
35								6	3.395	0.02107	0.62%		0.26087	0.00507	1.94%
36	**Picket distance**							7	3.615	0.02119	0.59%		0.285714	0.005553	1.94%
37	**d (m)**	**δd (m)**	**δd/d**					8	3.8175	0.02129	0.56%		0.307692	0.00598	1.94%
38	0.06	0.001	1.67%												
39									**Sub-calculations used in**						
40									**calculating uncertainty of**						
41									**instantaneous time:**						
42									**(dt)^2**						
43								1	0.0004						
44								2	1.76E-05						
45								3	1.09E-05						
46								4	7.84E-06						
47								5	6.25E-06						
48								6	5.29E-06						
49								7	4.41E-06						
50								8	3.8E-06						