



The following table shows the results of the experiment. The data points are plotted on the graph below. The error bars represent the uncertainty in the measurements. The best fit line is shown in red.

Time (s)	Distance (m)
0.0	0.0
0.2	0.02
0.4	0.08
0.6	0.18
0.8	0.32
1.0	0.50
1.2	0.72
1.4	1.00
1.6	1.32
1.8	1.70
2.0	2.12
2.2	2.60
2.4	3.12
2.6	3.68
2.8	4.28
3.0	4.92
3.2	5.60
3.4	6.32
3.6	7.08
3.8	7.88
4.0	8.72
4.2	9.60
4.4	10.52
4.6	11.48
4.8	12.48
5.0	13.52
5.2	14.60
5.4	15.72
5.6	16.88
5.8	18.08
6.0	19.32
6.2	20.60
6.4	21.92
6.6	23.28
6.8	24.68
7.0	26.12
7.2	27.60
7.4	29.12
7.6	30.68
7.8	32.28
8.0	33.92
8.2	35.60
8.4	37.32
8.6	39.08
8.8	40.88
9.0	42.72
9.2	44.60
9.4	46.52
9.6	48.48
9.8	50.48
10.0	52.52

