PHY 123 EXPT 2 Acceleration - Worksheet

```
D + -\Delta D = _____ d + -\Delta d = _____
```

velocity vs. time data for graph; be sure to write the proper units in each space between brackets: []												
measurement #	time (<i>t</i>) []	velocity (v) []	Δv []						
1												
2												
3												
4												
5												

From your graph made using the above data: $g_{exp} \pm \Delta g_{exp} =$?

Is this consistent with the expected value of g?_____

di	distance vs time (label all axes and units):															
_												 			 	
-													_		 	
-																
-																
-																

velocity vs. time (label all axes and units):

	-		· ·							

acceleration vs. time (label all axes and units):

				· ·					··· /	

A different approach to getting g and its uncertainty

Measurement # _i	[]
M ₁	
M ₂	
M ₃	
M4	
M ₅	

Average of the 5 measurements and its uncertainty (show both calculations explicitly; include units):

Is this consistent with the accepted value for g?_____

Which approach do you think gave you a better value of g? Why? Think and then write something to be graded by your TA.

Value of v_o determined from "far-above" ruler drop: _____ []