Prelab Questions

These questions need to be completed
before entering the lab. Please show
all workings.

Marker's Initials

Prelab 1

For a falling ball, which bounces, draw the expected shape of the vertical
position vs. time graph.

Prelab 2

From the position vs. time graph of an object moving with constant acceleration,
how could you find the instantaneous velocity?
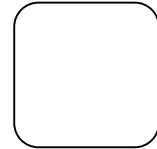
STAPLE YOUR PRE-LAB TO THIS PAGE

Name and Student Number: _____

Date: _____

Partner: _____

CHECKPOINT:

Have an instructor check your graphs and initial.

QUESTION 1:

QUESTION 2:

$t_1 =$

$t_2 =$

QUESTION 3:

$x(t_1) =$

$v(t_1) =$

← Staple your graph to the opposite page

QUESTION 4: note: $t_1 \leq t \leq t_2$

$v_{\max up} =$

$v_{\max down} =$

QUESTION 5:

QUESTION 6:

TABLE 1: The fit results from *Position vs Time* graph

	value	uncertainty	units
Expected value of **A** (see instructions)		N/A	
Automatic Fit Parameter **A**			

QUESTION 7:

TABLE 2: The fit results from *velocity vs time* graph

	Value	Uncertainty	Units
Slope			

QUESTION 8:

TABLE 3: The fit results from *acceleration vs time* graph

	Mean	Standard Deviation	Samples	Standard Error
Acceleration				

QUESTION 9:

$g =$

TABLE 4:

	g (m/s^2)	δg (m/s^2)	*Range* (m/s^2)	agreement
1	9.81	0.01		
2				
3				
4				

QUESTION 10:

⬅ Staple your graph to the opposite page