

## 203B Falling Table (using a TI calculator)

L1 = Time

L2 = Velocity = gravity x time =  $L1 * 10$

L3 = Distance =  $1/2gt^2 = (1/2)*10*L1^2$

**Using a table, answer the following questions:**

If a ball was dropped and it fell 10 seconds before hitting the ground:

How fast is it going for each second?

How far does it fall each second?

ON THE BACK

1. Graph Time vs Velocity in the Y direction
2. Graph Time vs Distance in Y direction

Be sure to include the equation for a line for graphs 1 *LinReg* ( $ax+b$ )

For graph 2 include the *QuadReg* equation

Time	Vy	Distance Y direction
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		