

Motion of Toys Activity

Table I - Calibration Check

<i>Trial</i>	<i># Dots</i>	<i>Time (s)</i>	<i>#Dots/Sec</i>
1			
2			
3			
Ave			

Actual Time Per Dot (s):

Table II - Determining Speed and Acceleration

	<i>Elapsed Time (s)</i>	<i>Tot. Dist. (cm)</i>	Δy (cm)	v (cm/s)	Δv (cm/s)	<i>accel. (cm/s/s)</i>
1						
2			$y_2 - y_1$	$\Delta y / \Delta t$		
3						
4					$v_2 - v_1$	$\Delta v / (2 * \Delta t)$
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						