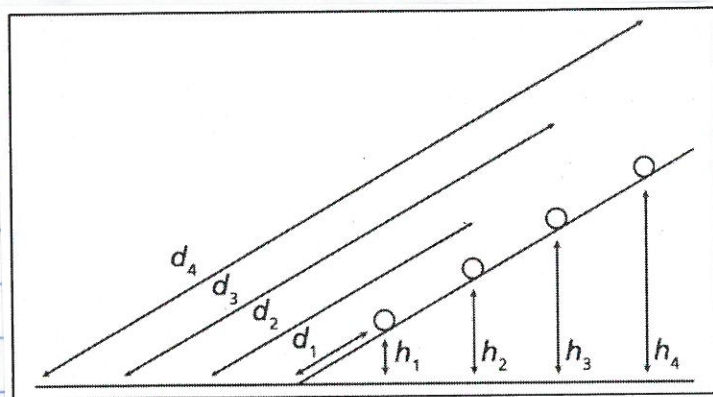


(S2) GPE and KE
Investigate

Part A: What Affects the Speed of a Ball at the bottom of a Ramp?

1a. • track angle is constant



	h (cm)	d or Δd (cm)	Δt (s)	$v = \frac{\Delta d}{\Delta t}$
d_1 trial 1				
d_1 trial 2				
d_2 trial 1				
d_2 trial 2				
d_3 trial 1				
d_3 trial 2				
d_4 trial 1				
d_4 trial 2				

- 2a. • track angle changes to change distance (d)
• height (h) is constant

	h (cm)	d or Δd (cm)	Δt (s)	$v = \frac{\Delta d}{\Delta t}$
trial 1	30			
trial 2	30			
trial 3	30			

- 2b. • track angle changes to change height (h)
• distance (d) is constant

	h (cm)	d or Δd (cm)	Δt (s)	$v = \frac{\Delta d}{\Delta t}$
trial 1		40		
trial 2		40		
trial 3		40		

3a.

skip step #4
please

5a. • track angle is constant, but is curved

	h (cm)	d or Δd (cm)	Δt (s)	$v = \frac{\Delta d}{\Delta t}$
d_1 trial 1				
d_1 trial 2				
d_2 trial 1				
d_2 trial 2				
d_3 trial 1				
d_3 trial 2				
d_4 trial 1				
d_4 trial 2				

5c.

please skip
step #5b