

جامعـــة Princess Sumaya الأميــرة سميّــة University للتكنولوجيا for Technology

PHYSICS LAB

(20147)

Experiment No. 5

Newton's Second Law Acceleration due to gravity

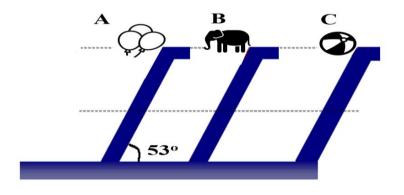
Name:)				
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Date	1	/	20	Mark ()

Acceleration due to gravity (g)

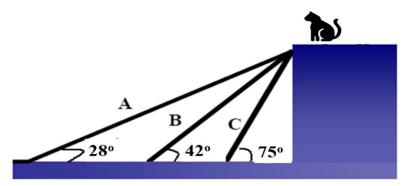
2 4	a								_
2- App	aratus								
									_
3- Data	ı								
a) Com	plete t	he foll	owing	table:					
d =	cn	n, y = _		cm	, x =	cr	n, h = y-x =	cn	1
No.	P ₁	P ₂	P ₃	S_1	S_2	t_1	t_2	a	g
1									
2									
3									
								Avg.=	

4. Questions:

1. The figure below shows three objects of different masses. They are released from rest at the same time from the same level and slide down the ground, neglect air resistance.



- a) Which object will reach the ground first?
- 1) Object A
- 2) Object B
- 3) Object C
- 4) All will reach at the same time.
- 2. The three tracks A, B, and C shown in the figure below are frictionless. The animal at rest.



- a) On which track the animal will slides faster?
 - 1) Track A
 - 2) Track B
 - 3) Track C
 - 4) Will slide in all of them with the same speed.