

School				Mark (10)
Name		HKID		
Class (No.)		Date		

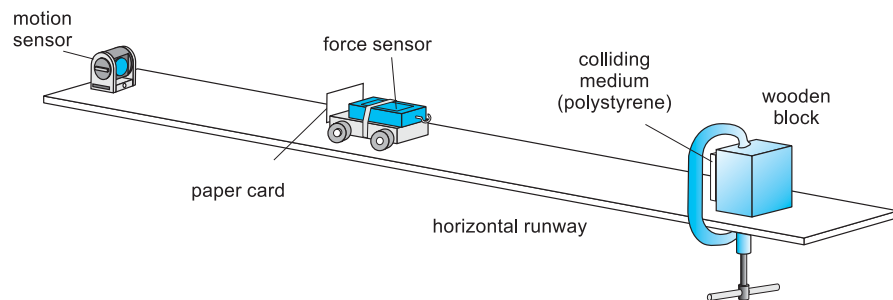
DL4 Impulse

Answers to Preview Questions

- ---
- ---

- ---
- ---

Experiment Studying the force of impact during a collision



Experiment

Experiment 1 Step 8

The total mass of the trolley and the force sensor, M _____

Table 1

Trial	1	2	3	4	5
Colliding material					
Area under $F-t$ graph ()					
Velocity just before impact, u ()					
Velocity just after impact, v ()					
Impulse, $M(v - u)$ ()					
Percent difference					

Answers to Discussion

- 1. _____

- 2. _____

- 3. _____

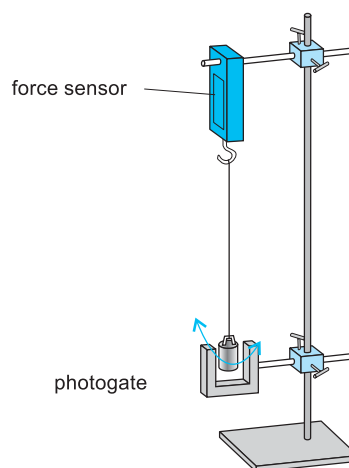
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DL5 Centripetal Force on a Pendulum

Answers to Preview Questions

1. _____
2. _____
- _____
- _____
3. _____
- _____
- _____
4. _____
- _____
- _____
5. _____
- _____
- _____

Experiment Studying the centripetal force at the lowest position of a pendulum



Experiment 1

Experiment Step 4

Diameter of pendulum bob, D _____

Experiment Step 8

Mass of pendulum bob, m _____

Length of pendulum, l _____

Table 1

	Point 1	Point 2	Point 3	Point 4	Point 5
Max. centripetal force, F_{expt} ()					
Speed, v ()					
Calculated centripetal force, F_{cal} ()					
Percent difference					

Answers to Discussion

1. _____

2. _____

3. _____

4. _____

