

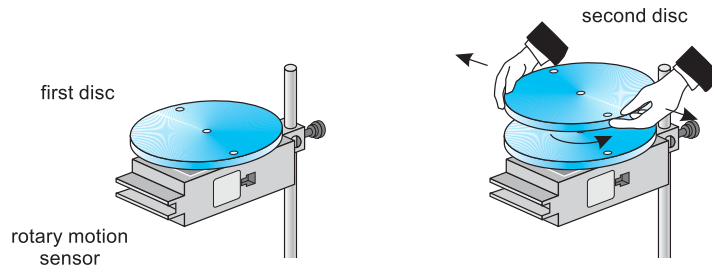
School				Mark (10)
Name		HKID		
Class (No.)		Date		

## DL8 Conservation of Angular Momentum

### Answers to Preview Questions

1. \_\_\_\_\_  
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2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_

### Experiment 1 Verifying the Law of Conservation of Angular Momentum



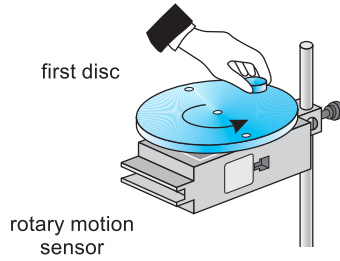
Experiment 1

Table 1

Trial	1	2	3
Angular speed just BEFORE dropping $\omega$ ( )			
Angular speed just AFTER dropping $\omega'$ ( )			

Conclusion \_\_\_\_\_  
\_\_\_\_\_

**Experiment 2 Estimating the moment of inertia of the rotating disc**



**Experiment 1 Step 1**

**Experiment 2**

Mass of the point mass,  $m$  \_\_\_\_\_

**Table 2**

Trial	1	2	3
Distance of the mass from the center of the disc, $r$ ( )			
Angular speed just BEFORE impact, $\omega$ ( )			
Angular speed just AFTER impact, $\omega'$ ( )			
Moment of inertia of the disc, $I$ ( )			
Average moment of inertia of the disc, $I$ ( )			

**Answers to Discussion**

1. \_\_\_\_\_  
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2. \_\_\_\_\_  
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3. \_\_\_\_\_  
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