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

DL6 Simple Harmonic and Damped Oscillations

Answers to Preview Questions

1. _____

   _____

2. _____

   _____

   _____

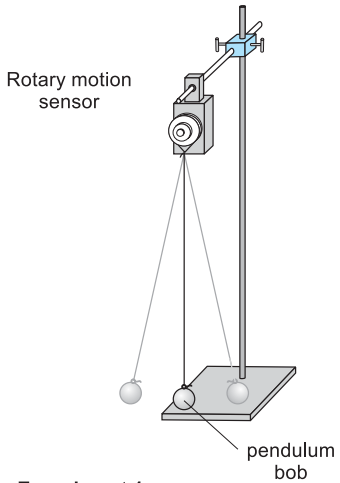
3. _____

   _____

4. _____

   _____

Experiment 1 Studying the undamped motion of a simple pendulum



Experiment 1

Experiment 1 Step 5

Length of pendulum, l _____

Data Analysis 1

2. Period of pendulum (from θ-t graph), T _____

   Period of pendulum (from calculation), T' _____

   Percent difference _____

Teacher's Remark

Data Analysis 1 (cont')

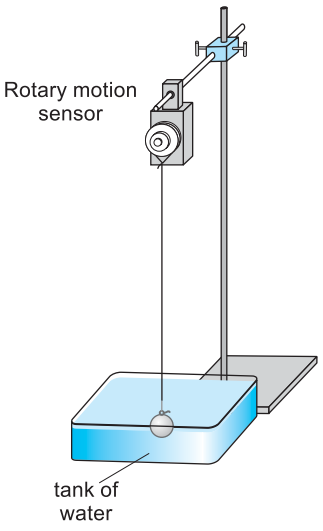
3. Determine the phase relationship between the three graphs

   θ-*t* and ω-*t* _____

   ω-*t* and α-*t* _____

   θ-*t* and α-*t* _____

Experiment 2 Studying the damped motion of a simple pendulum



Experiment 2

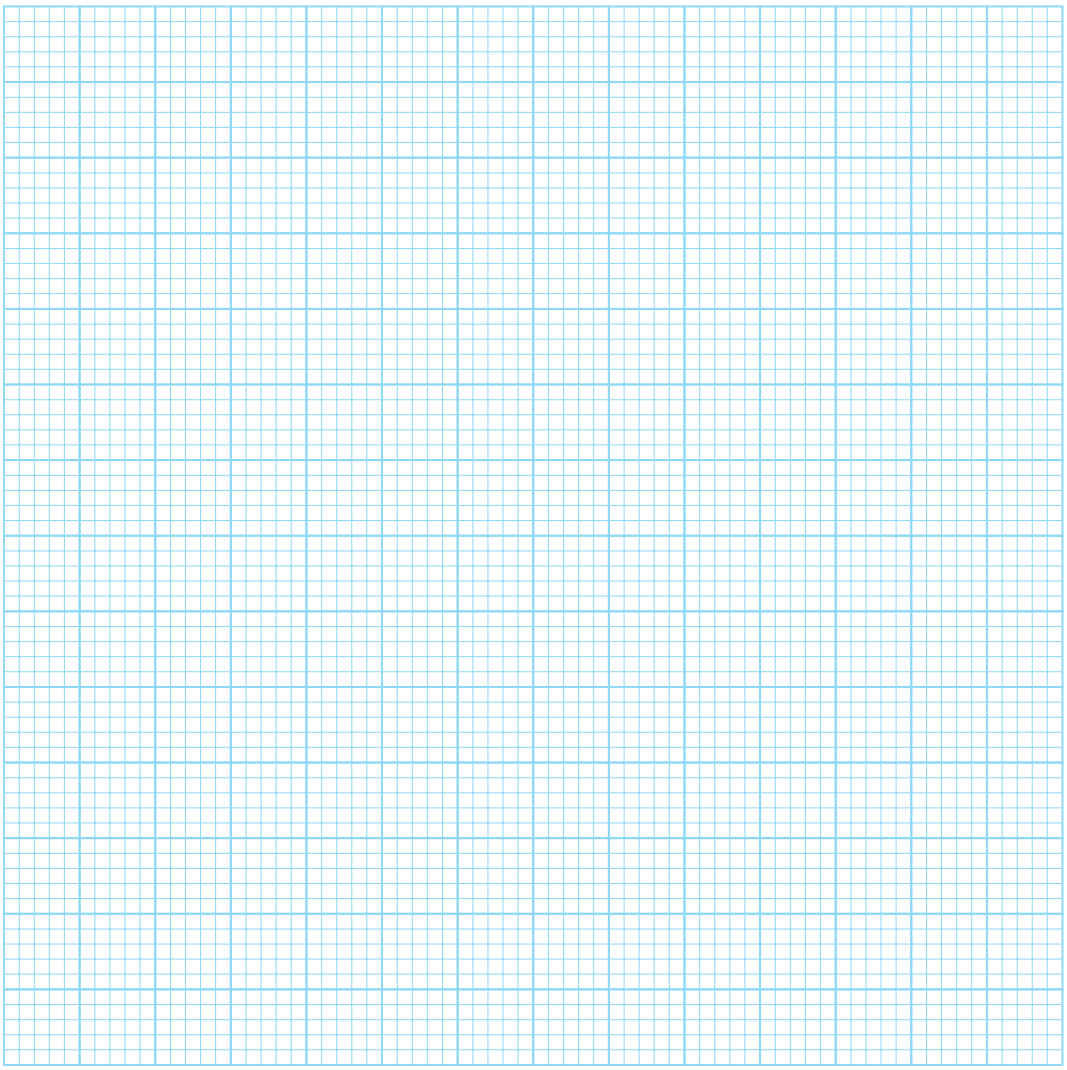
Data Analysis 2

4. Does the period vary as the amplitude decreases? _____

5.

Cycle	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Amplitude ( )															

Teacher's Remark



Plot of amplitude, *A* against *t*

Teacher's Remark

Answers to Discussion

1. _____

2. _____

3. _____

4. _____