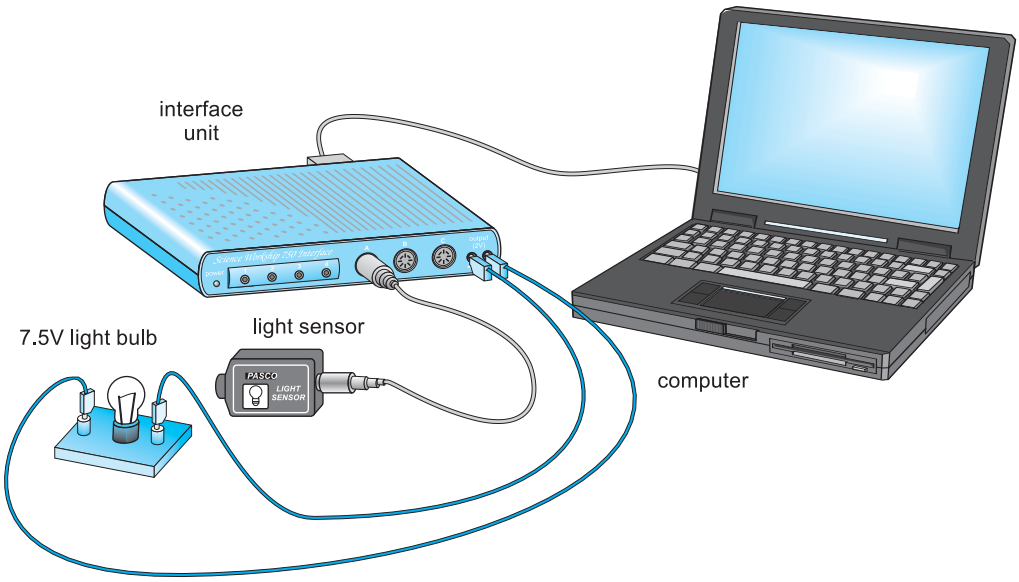
School				Mark (10)
Name		HKID		
Class (No.)		Date		

DL12 Light Intensity and Electrical Power

Answers to Preview Questions

1. _____
2. _____
   _____
3. _____
   _____
4. _____
5. _____
6. _____
   _____

Experiment 1 Studying the waveforms of light intensity and input voltage for a light bulb



Experiment 1

Teacher's Remark

Data Analysis 1

1. How do you compare the frequency of light intensity and the frequency of the a.c.?

   _____

   _____

2. What is the frequency of light intensity obtained from the FFT display?

   _____

Experiment 2 Studying the variation of light intensity with input voltage for a light bulb

Data Analysis 2

2. Which curve fitting method gives the best result?

   _____

   Determine the mean squared error for the best fit _____

   _____

3. What is your conclusion on the variation in Light intensity with the voltage across the light bulb? _____

   _____

   _____

   _____

   _____

Teacher's Remark

Answers to Discussion

1.

2.

3.

4.

Teacher's Remark