

## **DHS Preliminary Examination 2023 H2 Physics Paper 4 Preparation List**

### **Question 1**

No.	Description	Qty	Remarks
1	2 V battery power supply	1	
2	switch	1	
3	digital multimeter with 2 leads	1	200 mA setting, no need to pre-set
4	connecting leads	9	Excluding dmm leads
5	47 $\Omega$ resistor	1	To be labelled with its value in $\Omega$
6	10 $\Omega$ resistor	2	To be labelled with its value in $\Omega$
7	100 $\Omega$ resistor	3	To be labelled with its value in $\Omega$

### **Question 2**

No.	Description	Qty	Remarks
1	identical paper clips each with a length of approximately 3 cm.	25	The 25 paper clips should be joined together to form a chain.
2	spheres of modelling clay (plasticine) each of mass 1.5 g.	2	The 2 spheres should be placed in a small container.
3	wooden strip with approximate dimensions 90 cm x 4 cm x 2 cm. A metre rule can be used as the wooden strip.	1	Sandpaper should be used to smooth the widest surfaces and any sawn edges of the strip.
4	metre rule	1	
5	electronic balance	1	Shared between two candidates.

Questions 1 and 2 should be placed on the ODD-numbered benches, clearly labelled.

### **Question 3**

No.	Description	Qty	Remarks
1	retort stands	1	
2	bosses	2	
3	clamps	2	
4	strings <sup>1</sup>	2	90 cm each
5	wooden blocks	4	used to clamp the strings
6	meter rule	1	
7	stopwatch	1	
8	pendulum bob	2	small ones

Question 3 should be placed on the EVEN-numbered benches, clearly labelled.

<sup>1</sup> The strings should be replaced for every candidate.