

WESTLANDS JOINT EXAMINATION

Kenya Certificate of Secondary Education

PHYSICS PRACTICAL

July / August 2016

CONFIDENTIAL INSTRUCTIONS

INSTRUCTIONS TO SCHOOLS

The information in this paper is to enable the head of the school and the teacher in charge of Physics to make adequate preparations for this year's Physics practical examination. NO ONE ELSE should have access to this paper or acquire knowledge of its contents. The teacher in charge of physics should NOT perform any of the experiments in the same room as the candidates or make the results of the experiment available to the candidates or give any other information related to the experiments to the candidates. Doing so will constitute an examination irregularity which is PUNISHABLE.

Each candidate should be provided with the following:

Question 1

PART A

- A source of heat.
- A cotton thread 50cm long.
- A thermometer
- A complete retort stand.
- 100ml measuring cylinder.
- A calorimeter with a stirrer (N.B teachers are advised to improvise 200ml beaker).
- Some water
- A 100g mass
- A weighing balance (Accuracy 0.1g) to be shared.

PART B

- Concave mirror (focal length 20 cm) and a holder.
- Metre rule
- Candle (about 7cm)
- White screen.

- Retort stand
- Cork
- Optical pin or 2 inch nail.
- Stop watch
- Half metre rule
- Knife edge
- rectangular wooden plank (50cm × 5 cm × 0.5cm) with drilled holes 1, 2, 3, 4, 5, 6 (3 cm intervals from 25cm mark)
- Sharp pointed object e.g. 2 inch nail

Part B

- A voltmeter (0 - 3 or 0 - 5V)
- An ammeter (0 - 1A)
- A switch
- One dry cell and a cell holder
- Six connecting wires.
- Resistor (10 Ω)

Question 2

Part A