**INSTRUCTIONS TO SCHOOLS**

232/3

PHYSCIS

PAPER 3

**PAVEMENT NATIONAL EXAMINATION 2021/2022**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**CONFIDENTIAL INFORMATION ON LIST OF REQUIREMENTS**

Each candidate must have the following requirements:

Q 1 - A piece of candle of the height enough to reach a cross-wires on a cardboard.

- Plane mirror of dimensions approximately 4cm by 7cm.

- A metre rule

- A thin lens of focal length 20cm mounted on a lens holder.

- A cardboard with cross-wire supported to stand to stand vertically.

- A piece of plasticine

- A white screen

- A piece of cellotape

Q2. - A spiral spring with a hook and pointer of spring constant 23 + 1 N/m

- One stand, one boss and one clamp

- A metre rule

- A stop watch

- A set of masses [two 100g, 50g, 20g]

- One new 1.5v dry cell

- Cell holder for one cell

- A bulb 3.8v on a bulb holder.

- A switch labelled K

- An ammeter 0 – 1A or 0 – 80mA.

- A voltmeter 0 – 3v

- Seven connecting wires 4 of which with crocodiles clips

- A variable resistor, rheostat or a potentiometer.