

**Muungano KCSE Pre-Trial Exam
PHYSICS (232/3) CONFIDENTIALS**

Each candidate will require the following:

QUESTION 1

- ✓ A metre rule
- ✓ A complete retort stand
- ✓ A spiral spring with a hook (*76 turn, external diameter of 1.25cm, wire diameter of 0.60mm*) and spring constant of 15N/M.
- ✓ A stop watch
- ✓ Two wooden blocks (*approximately 2x2x0.5cm*)
- ✓ A vernier caliper (*can be shared*)
- ✓ A micrometer screw gauge (*can be shared*)
- ✓ Two 50g masses
- ✓ Two 100g masses

QUESTION 2

- Nichrome wire SWG 28 mounted on a mm scale
- 2 new dry cell (*size D*)
- A cell holder
- A switch
- An ammeter (*0 – 1 A*)
- A voltmeter (*0 – 5 V*)
- **Six** connecting wires three with crocodile clips
- A micrometer screw gauge (*to be shared*)

The physics teacher should ensure that the apparatus conform to the stated specifications