

**CONFIDENTIAL**

The teacher should make sure that the following apparatus are available

**QUESTION ONE**

- *A bare copper wire of diameter 0.71 mm (SWG 22) and length 50cm.*
- *A retort stand, boss and clamp*
- *An optical pin mounted on a cork*
- *A stop watch*
- *Wire cutters /pliers(to be shared)*
- *A metre rule or half metre rule*
- *A cylindrical container*
- *Some water*
- *a boiling tube*
- *some sand(in 100ml beaker)*
- *Spatula*
- *a rubber band*

**QUESTION TWO**

- *A 250 cm<sup>3</sup> beaker*
- *Water*
- *Screen*
- *Candle*