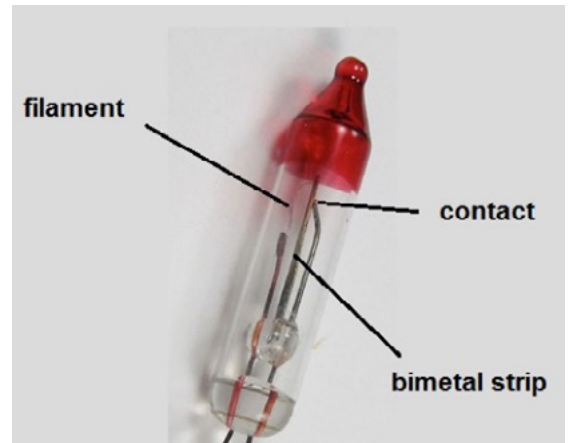




INVESTIGATION 3

Observing a bimetal strip in action instructions

Flashing filament lamps make use of a very small bimetal strip. To help you to understand how a bimetal strip might be used to make a temperature sensitive switch that could be incorporated into the internet of things, you will observe a bimetal strip inside a flashing filament lamp.



- Examine the inside of the filament lamp carefully using a hand lens.
- In the space provided on the sheet, sketch what you could see inside the lamp and label the parts that you can identify.
- Connect the filament lamp into a series circuit with a battery and push switch.
- Switch the circuit on and watch the lamp.
- When the lamp begins to flash, examine it carefully using the hand lens.

Q. Giving as much detail as possible, describe what happens inside the lamp when the switch is closed?

