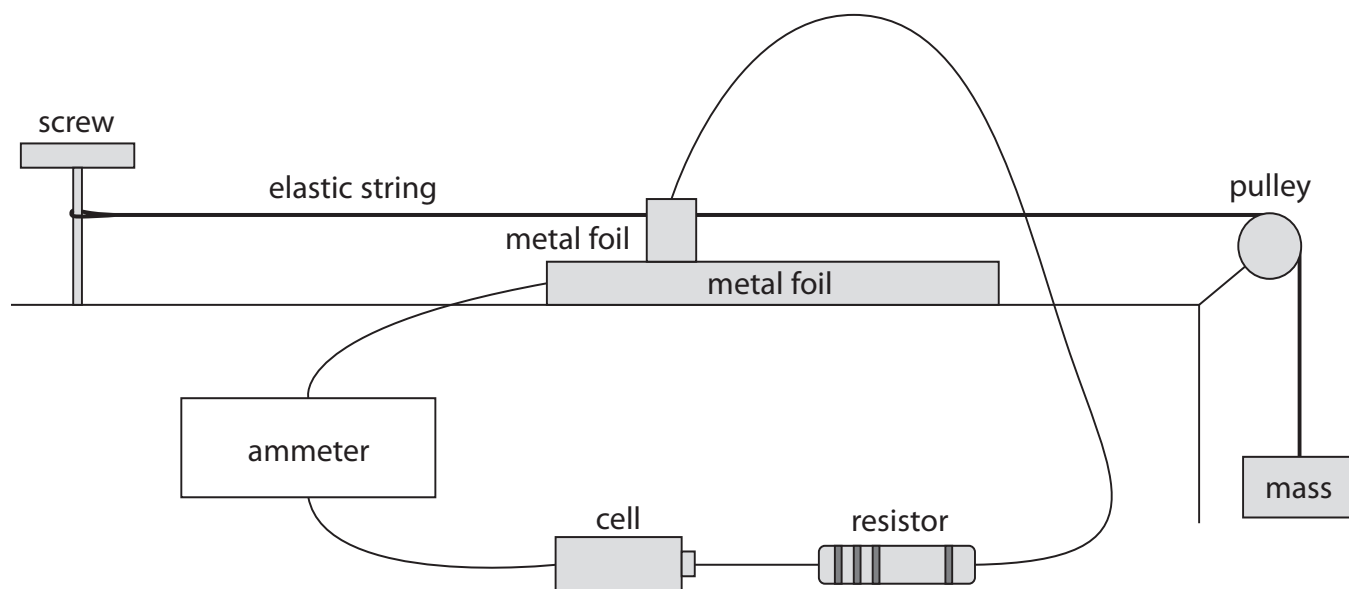


12 The diagram shows some apparatus used to find the mass of an object.

The two pieces of metal foil act as a variable resistor.

When more mass is added, the elastic string stretches and the small piece of metal foil moves to the right.



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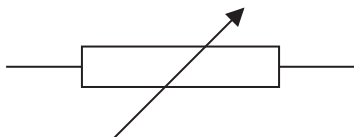
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- (a) (i) Draw the circuit diagram for this electrical circuit.

The variable resistor has been drawn for you.

(4)



- (ii) Draw a voltmeter on the diagram to measure the voltage of the variable resistor.

(2)

- (b) Explain how the voltage across the variable resistor changes if more mass is added to the end of the elastic string.

(4)

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