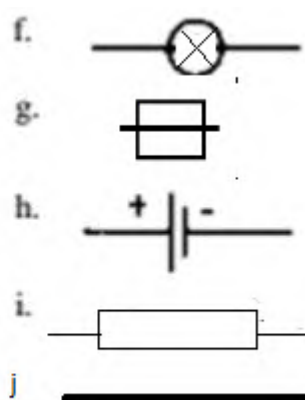
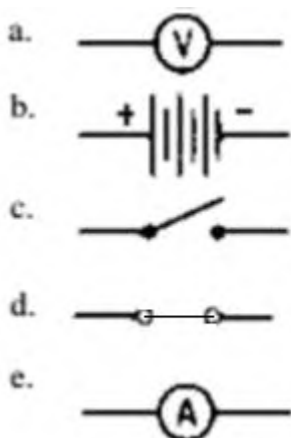


REVISION SEPTEMBER 2021 NB. All work in TERM 3 is tested.

Question 1 Match the symbols with the appropriate number below eg 1.1 h



1.1 Single cell

1.2 Voltmeter

1.3 Three cells in series

1.4 Open switch

1.5 Closed switch

1.6 Ammeter

1.7 Light bulb

1.8 Fuse

1.9 Resistor

1.10 Conductor

(10)

Question 2

The following data was collected during an experiment investigating the relationship between voltage and current in a circuit containing one resistor.
(cells were added in series to obtain the results below)

Potential difference	Current
(V)	(A)
2	1
4	2
6	3
8	4
10	5

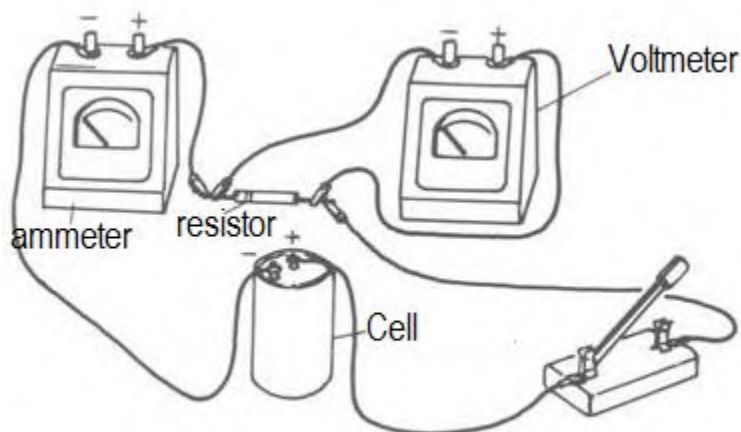
"If I have seen further it is by standing on the shoulders of Giants." Sir I. Newton

2.1 Plot a graph using these results. (5)

Using the data, draw a fully labelled **Line graph**.

(Potential difference on the X axis and Current on the Y axis)

2.2 Using the following picture draw a circuit diagram from it. (4)



2.3 A toaster has a resistance of 10ohms, a current of 5Amperes passes through the toaster. What will a voltmeter read, if connected across this toaster?

(3)

Question 3

3.1 A washing machine has a power rating of 400 W. It takes the machine 0,5 hours to completely wash a 6 kg load of heavily soiled laundry. Eskom charges energy usage at R1,65 per kWh. Calculate the cost if the washing machine works for 0,5 hours. (Show all working clearly)

Question 4

Complete the table below

Object Mass (kg)	Weight (N) on Earth	Weight (N) on Moon
Average Man 95		
Bag of Dog food 8		
Packet of sugar 2.5		
Packet of spaghetti 0.5		

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