

Combined Science  
PAPER 6  
Higher Tier

Friday 14 June 2024 – Afternoon

Time: 1 hour 10 minutes

Diagram Booklet

THIS DIAGRAM BOOKLET **MUST** BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

## INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

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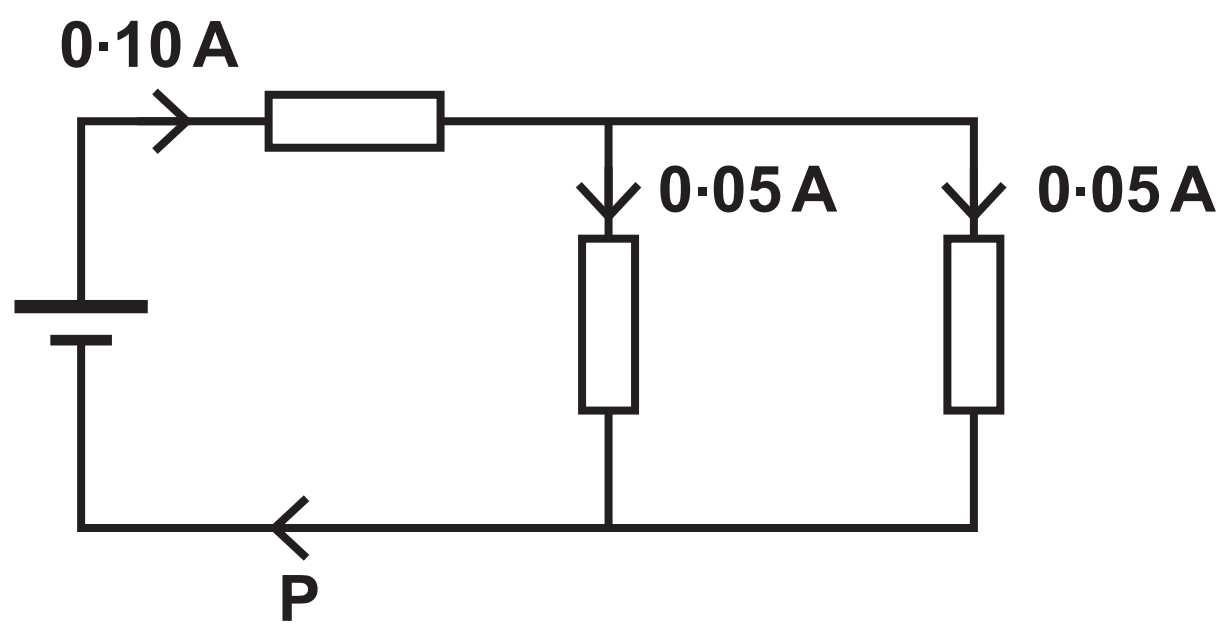
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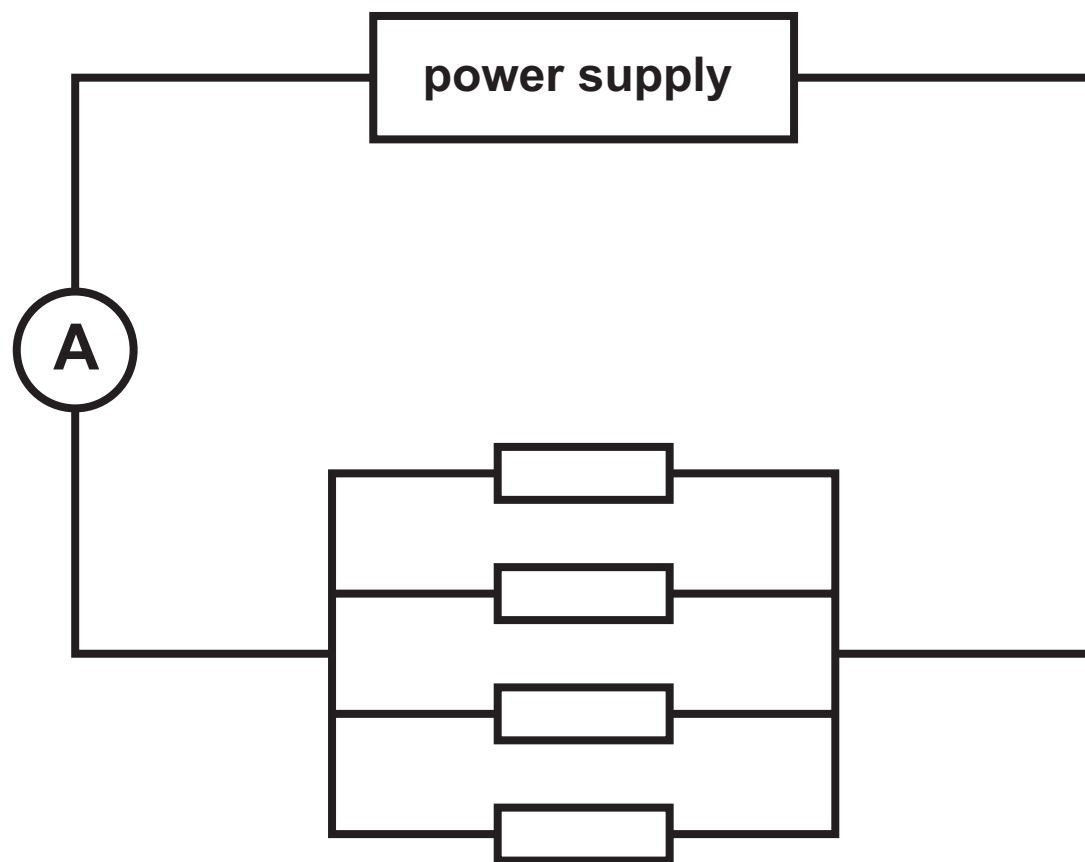
## Question 1(a)

FIGURE 1



## Question 1(b)

FIGURE 2



Question 1(b)

FIGURE 3

number of resistors	current in mA	voltage in V
4		6.00
3	27.3	6.00
2	18.2	6.00
1	9.1	6.00

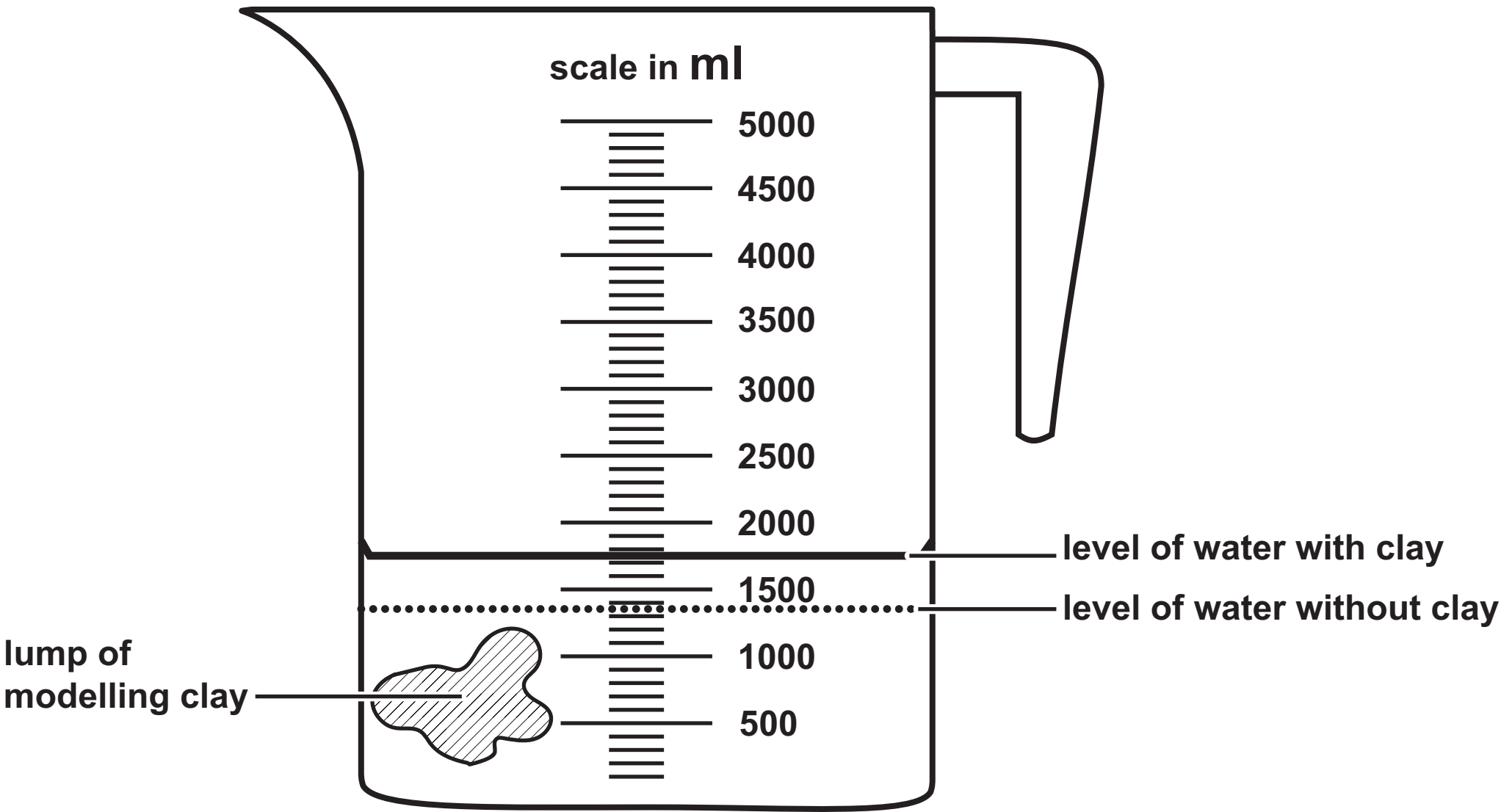
Question 2(b)

FIGURE 4

	density in g/cm <sup>3</sup>
solid aluminium	2·70
liquid aluminium	2·38

Question 2(d)

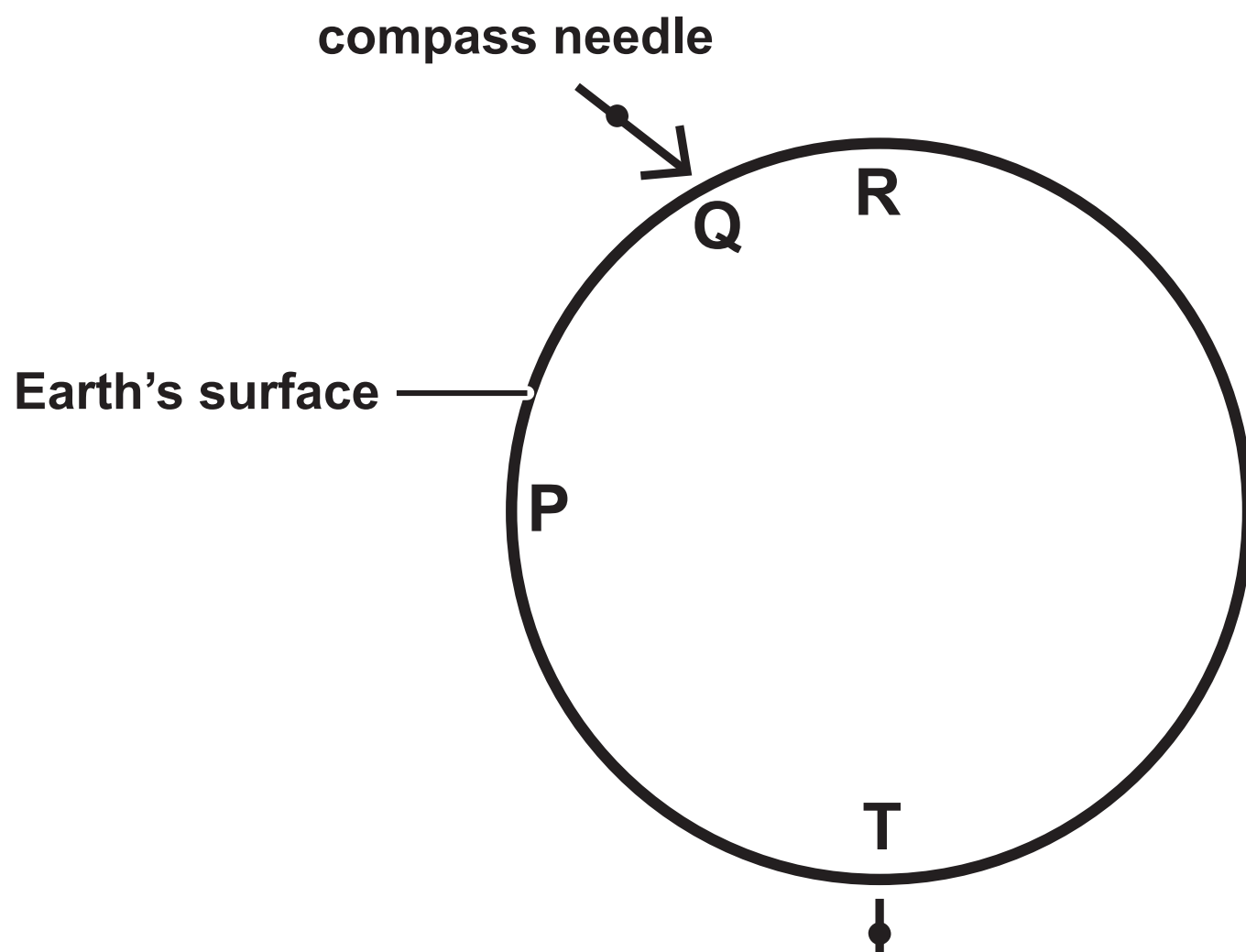
FIGURE 5



## Question 3(a)

not to scale

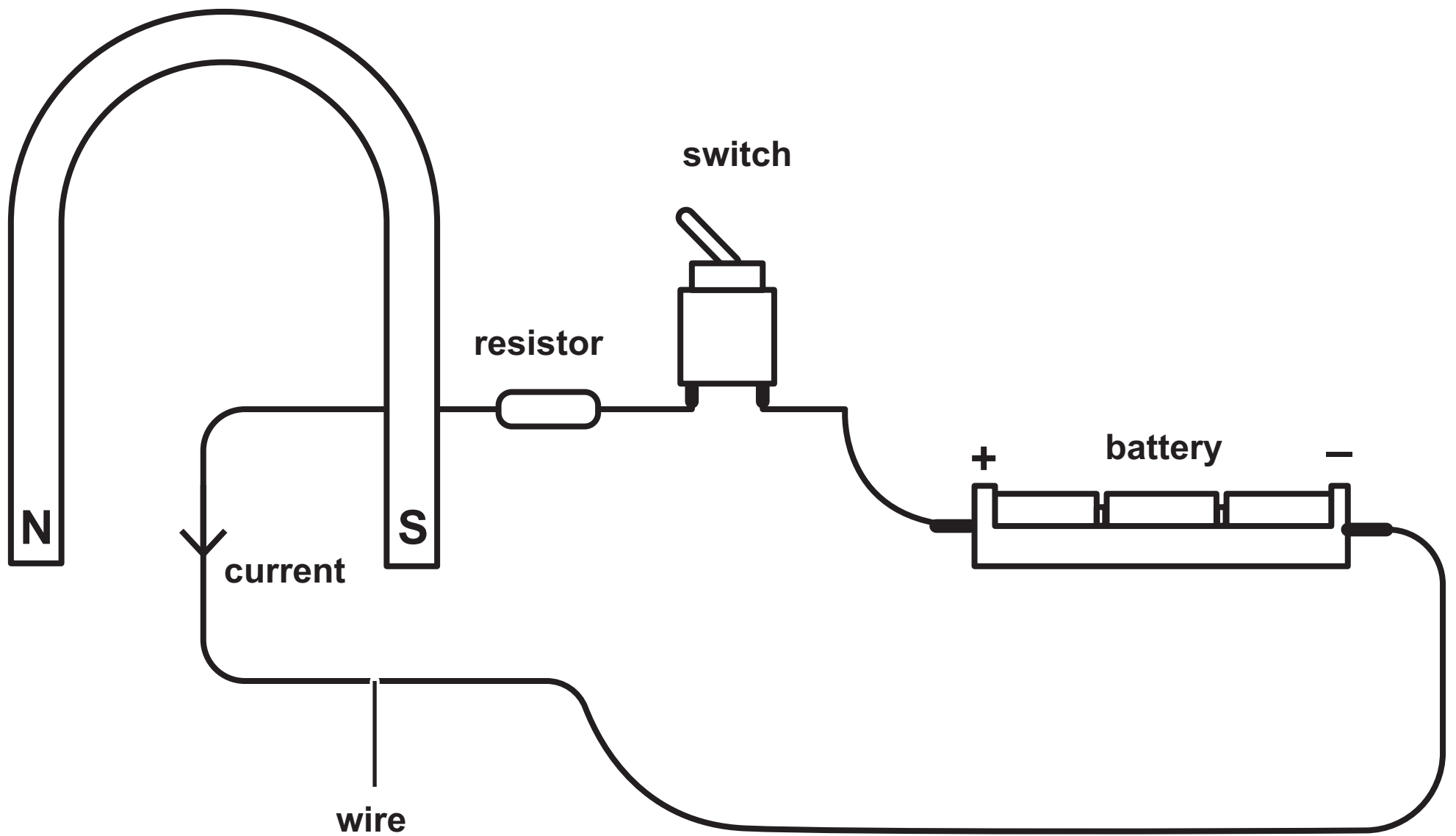
FIGURE 6





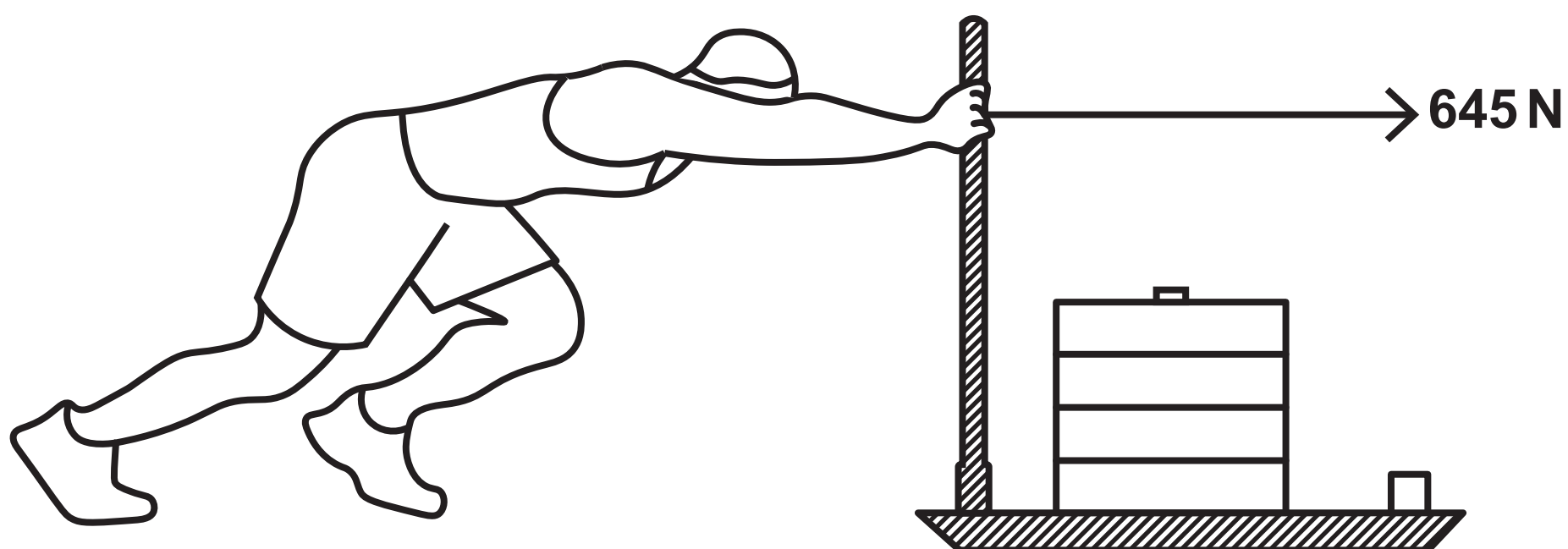
## Question 3(b)

FIGURE 7



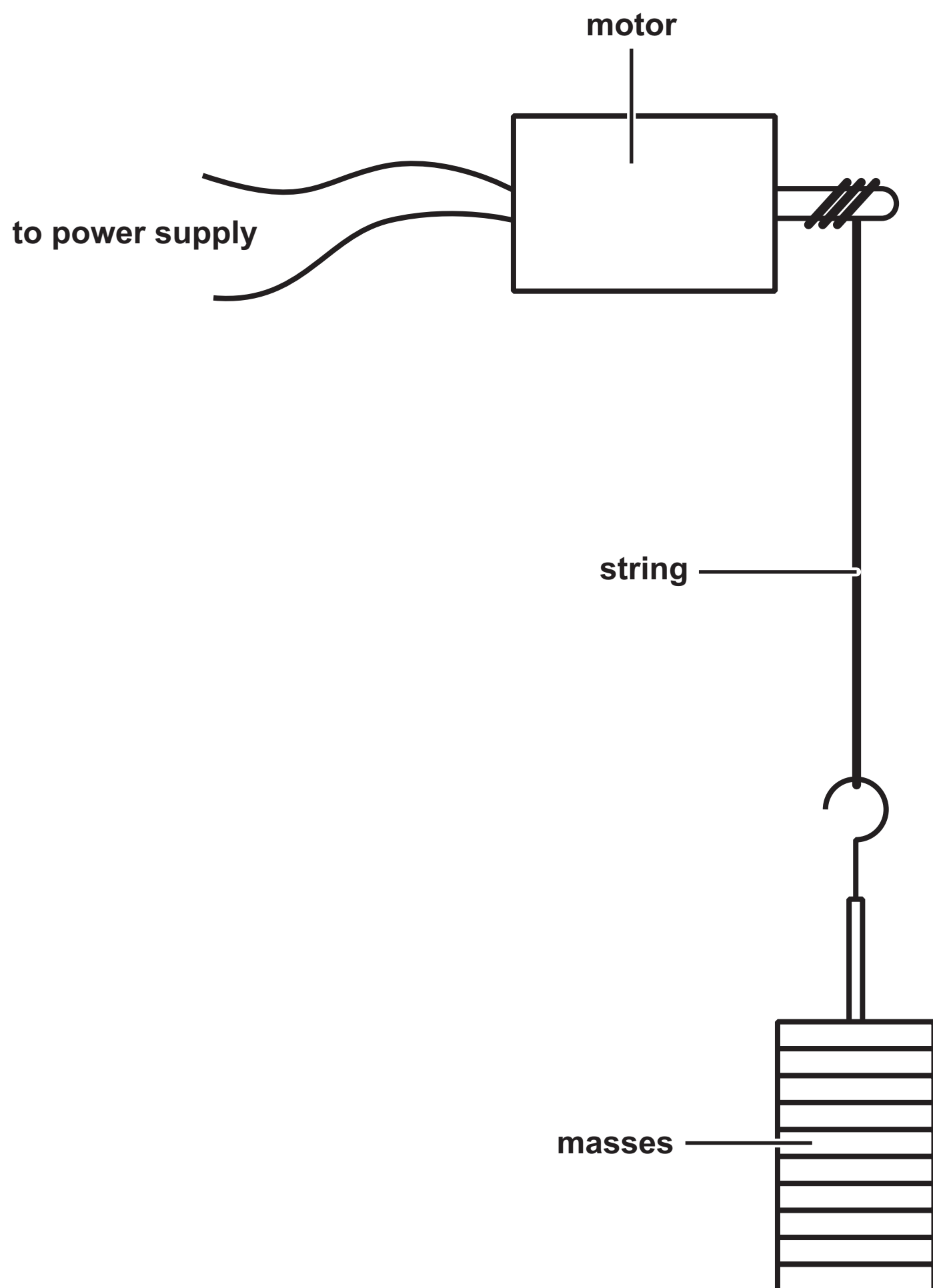
## Question 4(a)

FIGURE 8



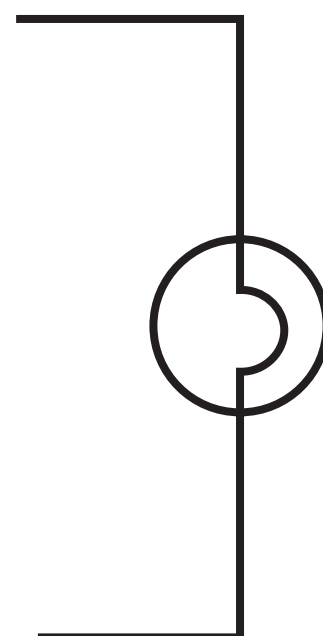
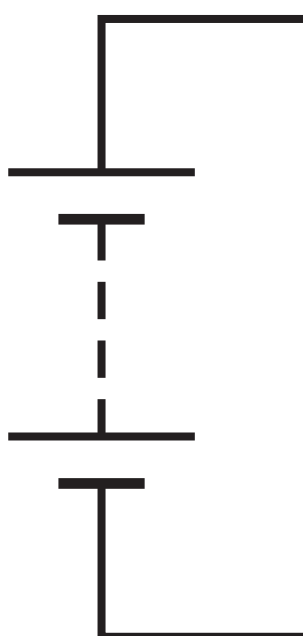
## Question 4(b)

FIGURE 9



## Question 5(a)

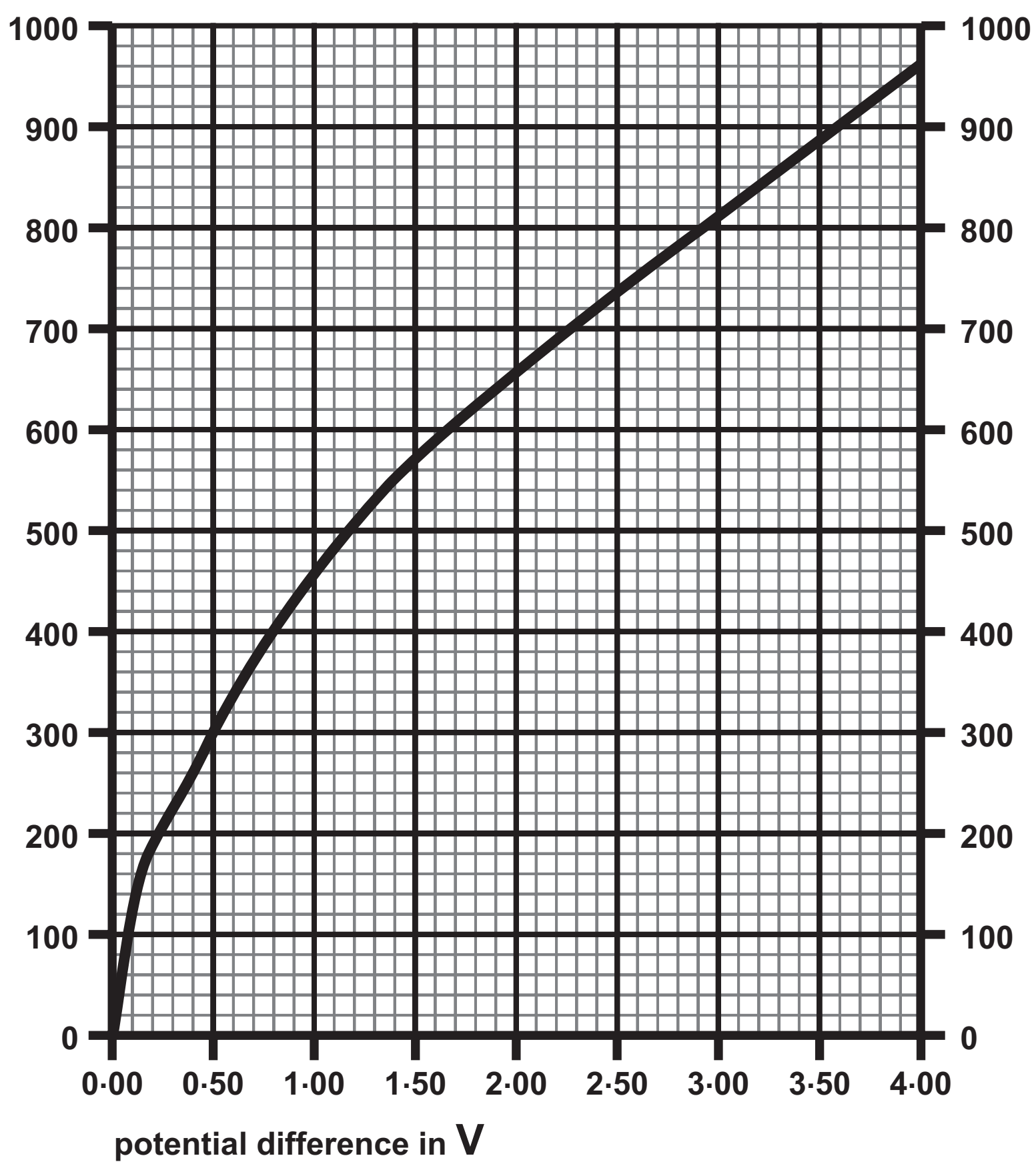
FIGURE 10

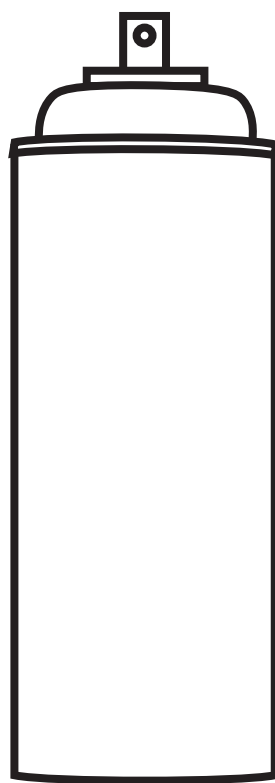


## Question 5(b)

FIGURE 11

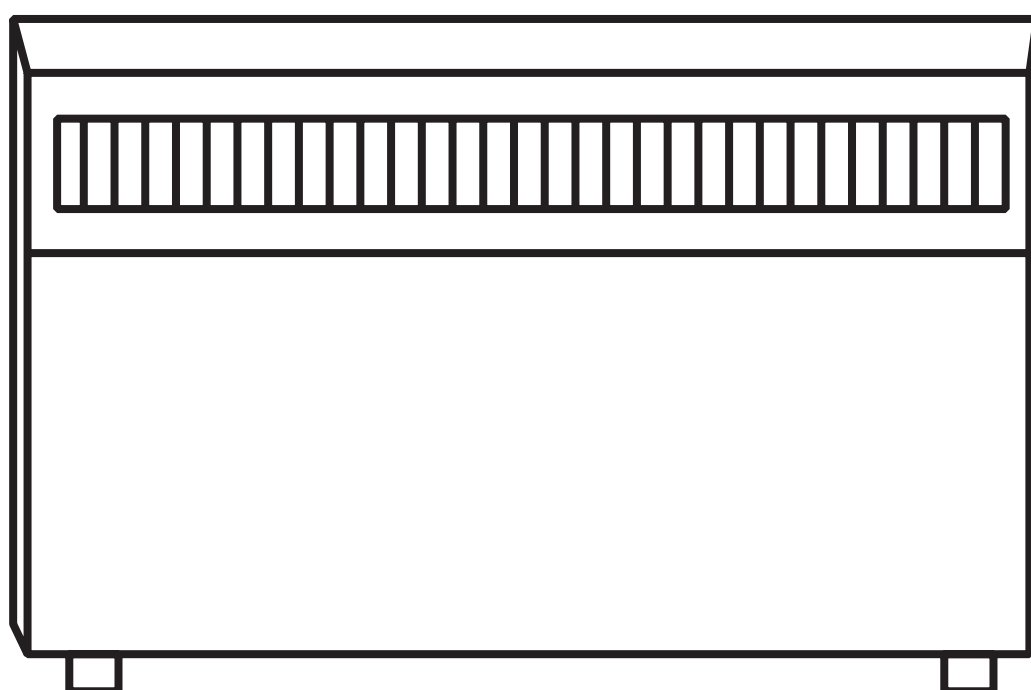
current in mA



**Question 6(b)****FIGURE 12**

## Question 6(c)

FIGURE 13

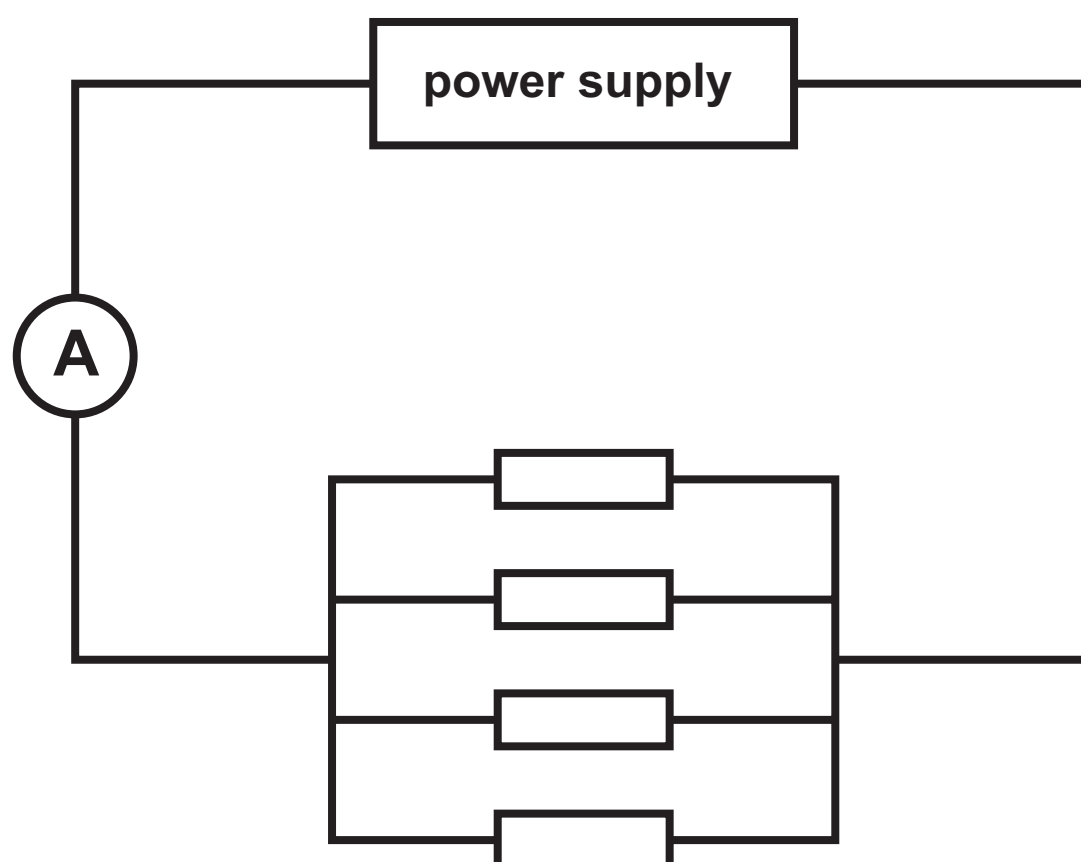


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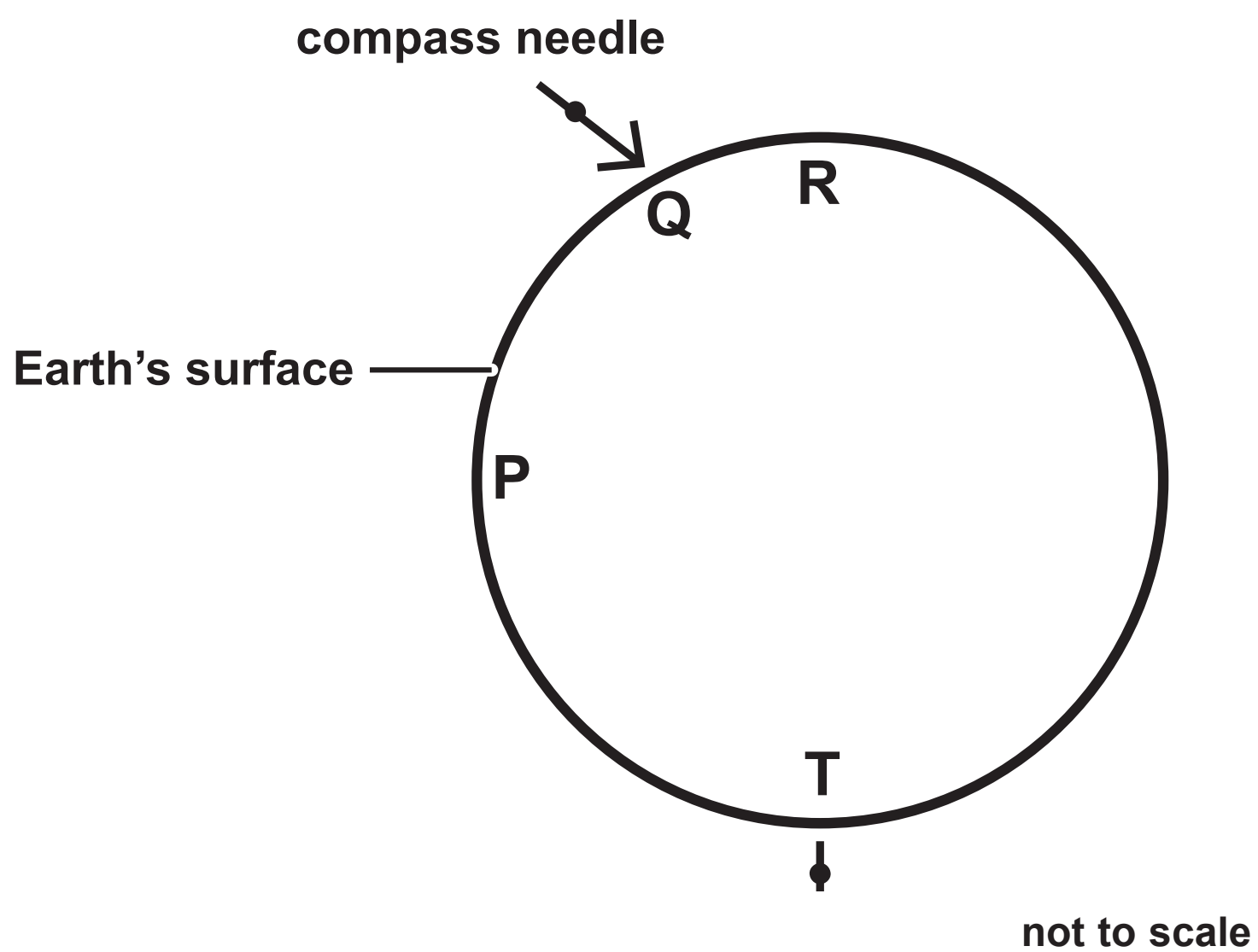
## Question 1(b)

FIGURE 2



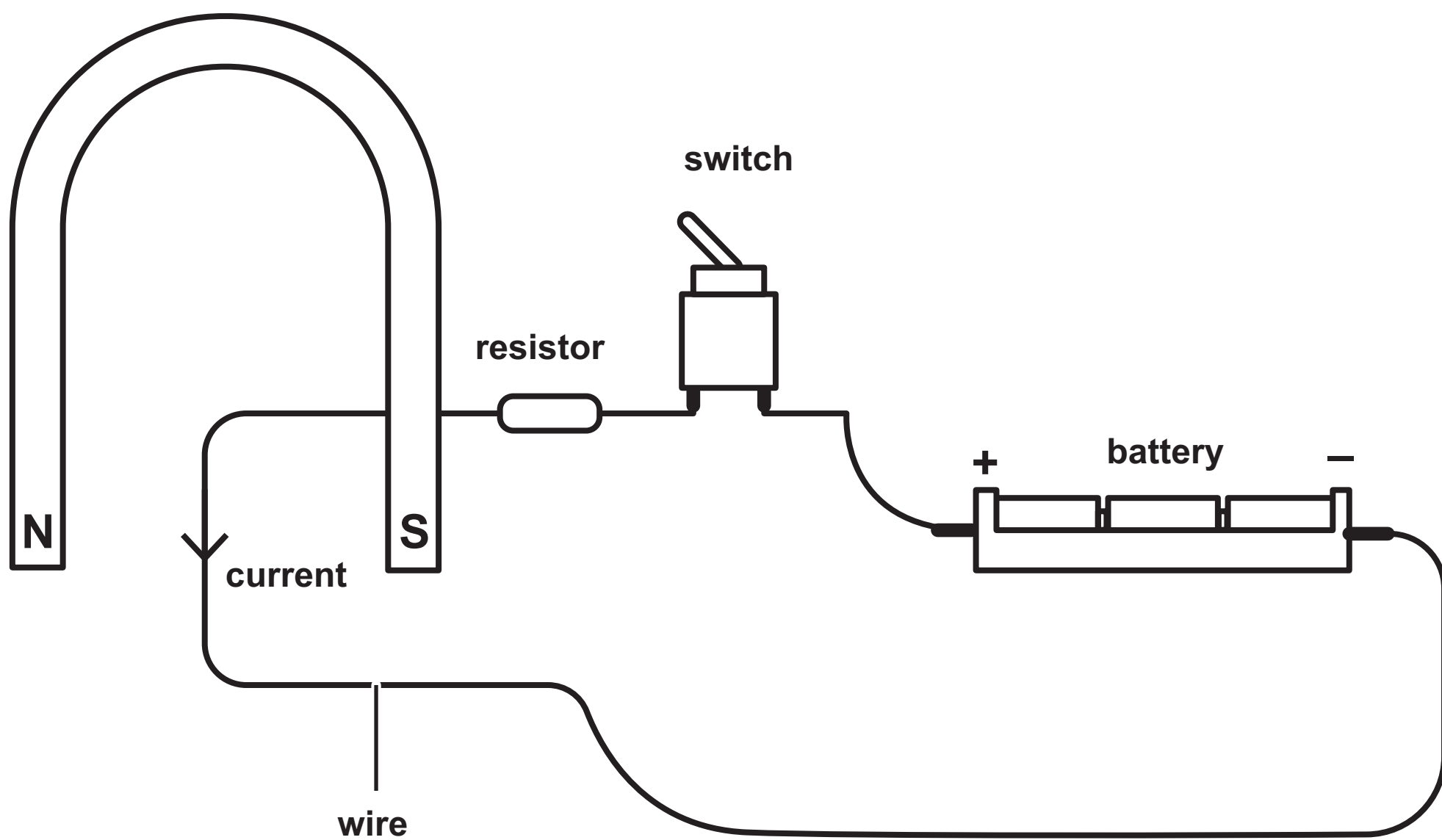
## Question 3(a)

FIGURE 6



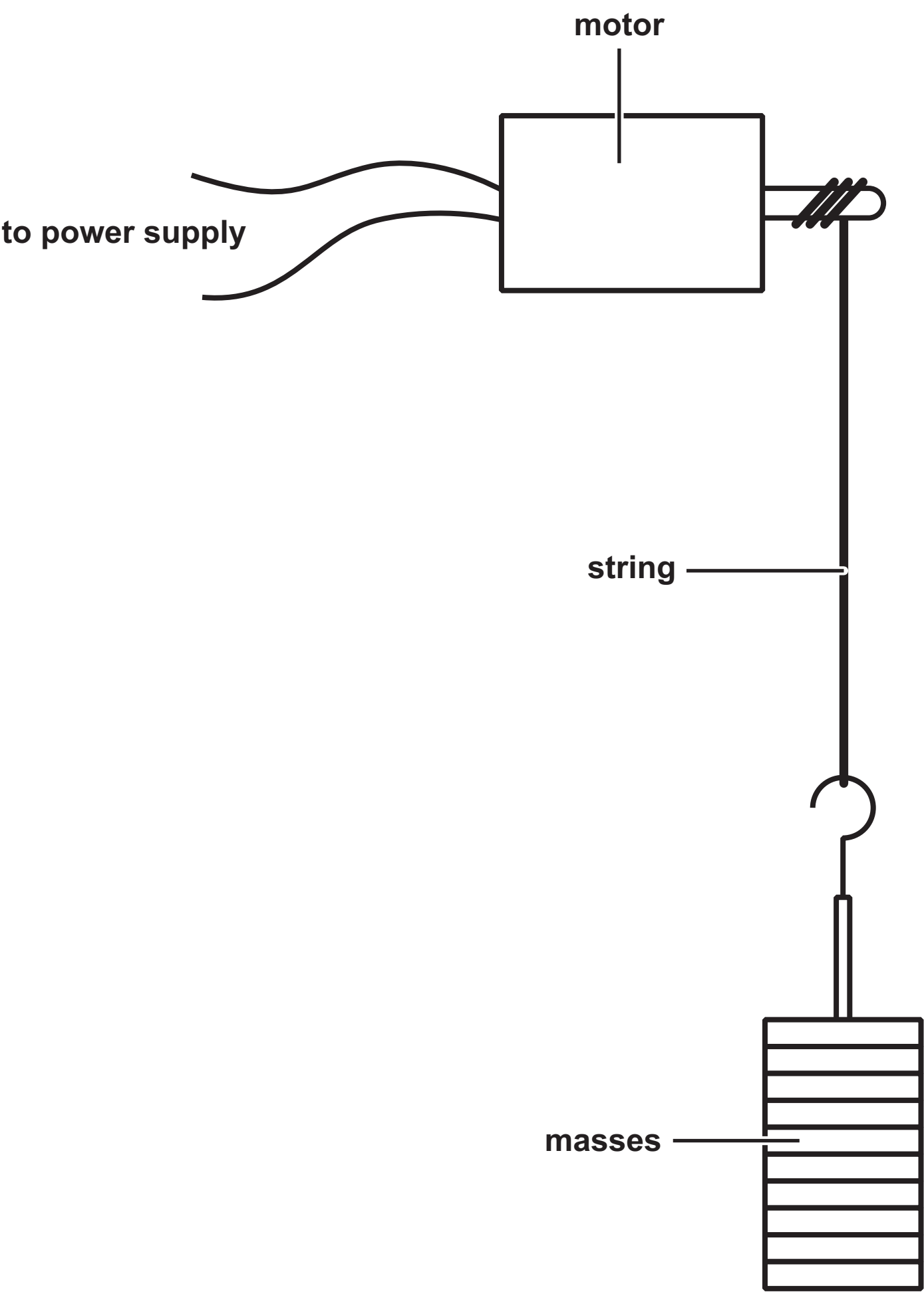
## Question 3(b)

FIGURE 7



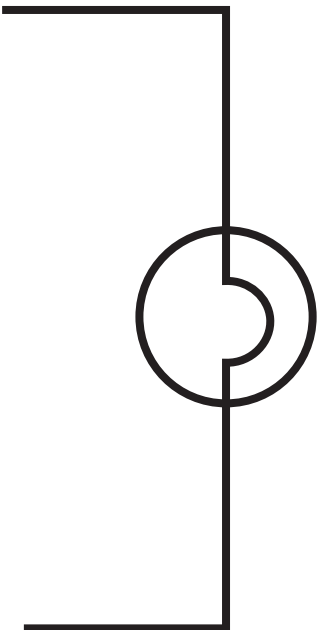
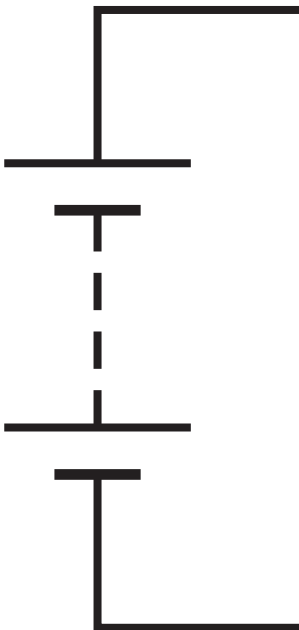
Question 4(b)

FIGURE 9



Question 5(a)

FIGURE 10



**Question 6(d) – Blank page**