

**Paper Reference(s)    1SC0/2PF**  
**Pearson Edexcel Level 1/Level 2**  
**GCSE (9–1)**

**Combined Science**  
**PAPER 6**  
**Foundation Tier**

**Diagram Booklet**

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

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

## **INSTRUCTIONS**

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

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

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## Question 1(a)

**circuit  
symbol**

**description**



● **battery**



● **LED**



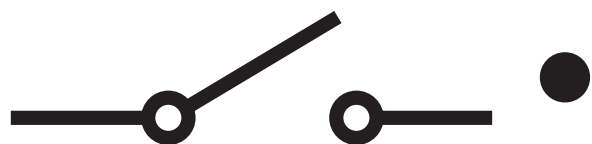
● **switch**

● **resistor**

## Question 1(a)

**circuit  
symbol**

**description**



● **battery**



● **LED**

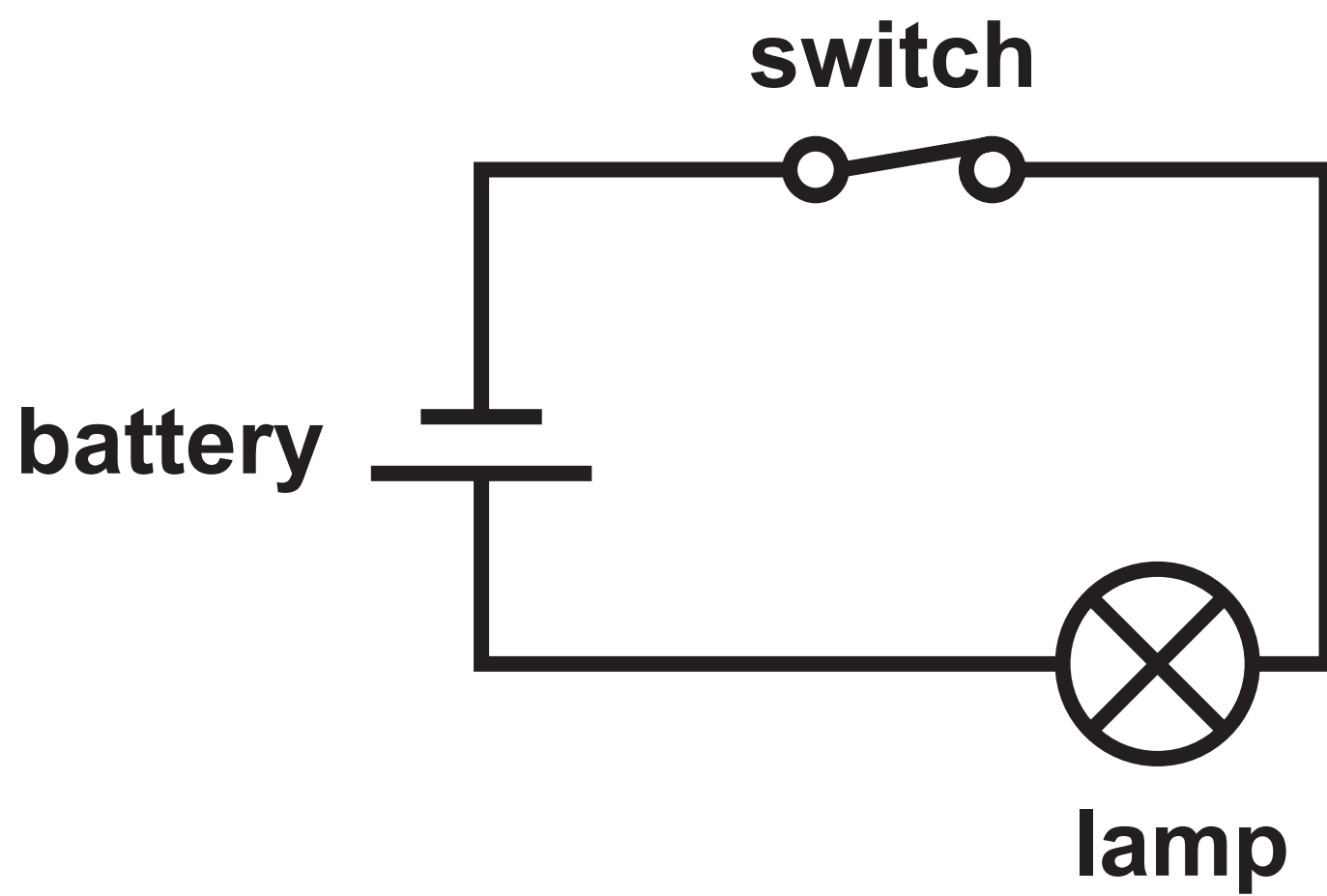


● **switch**

● **resistor**

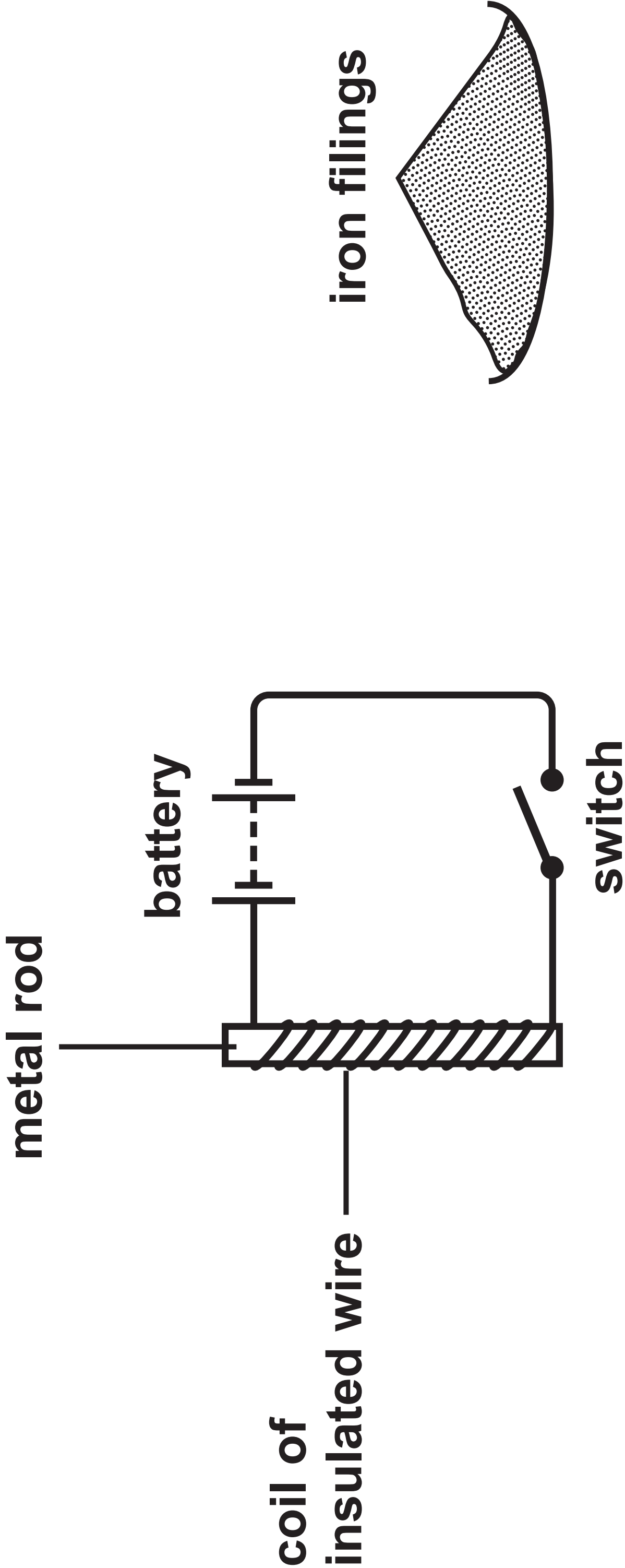
## Question 1(b)

FIGURE 1



Question 2(a)

FIGURE 2

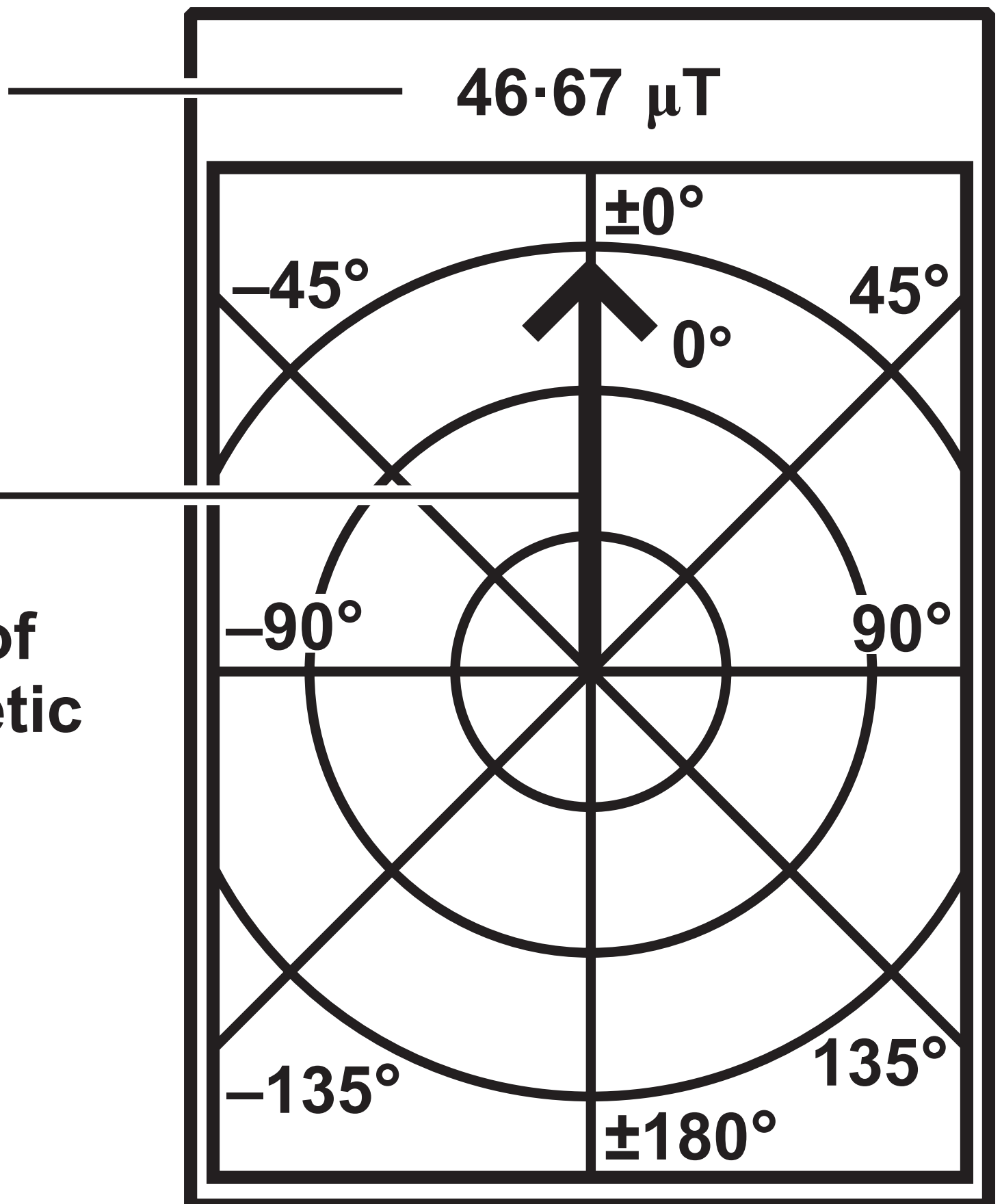


## Question 2(b)(i)

FIGURE 3

numbers  
show the  
strength  
of the  
magnetic  
field

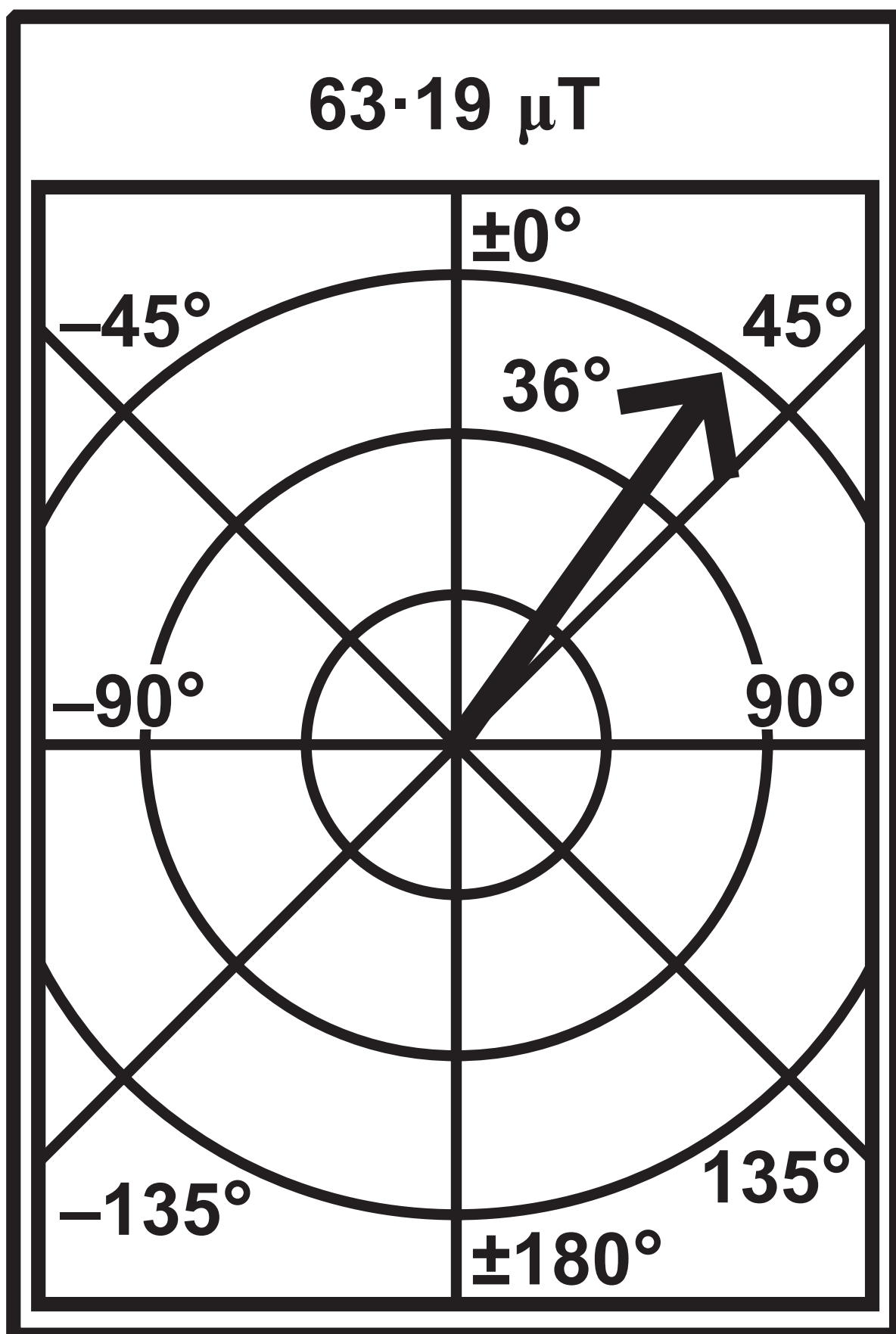
pointer  
shows the  
direction of  
the magnetic  
field





## Question 2(b)(ii)

FIGURE 4

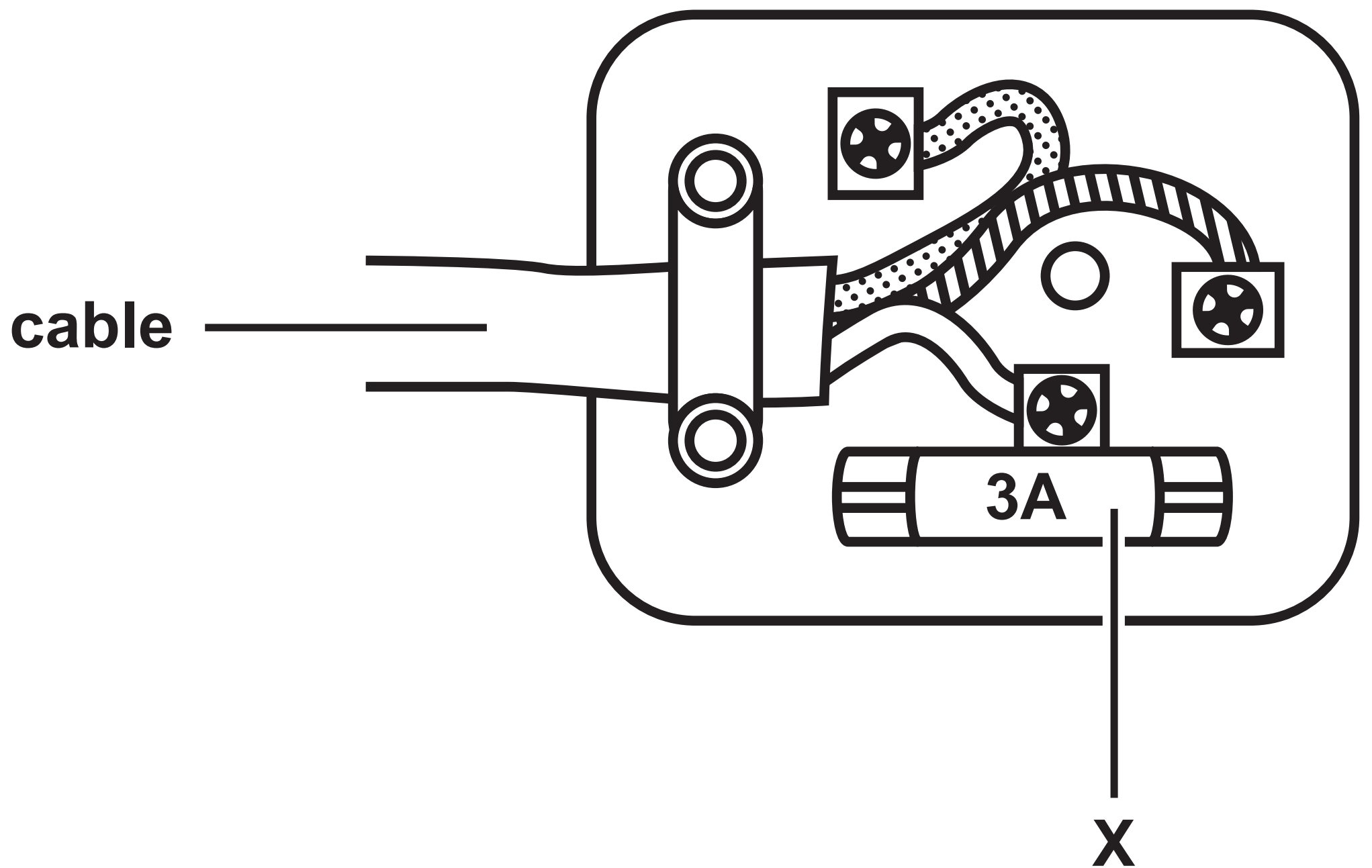


magnet



## Question 3(a)

FIGURE 5

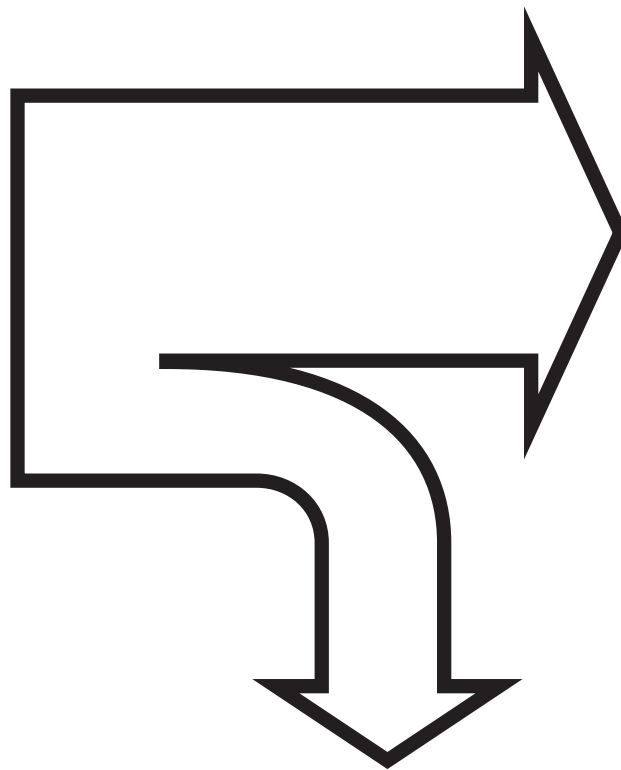


## Question 3(c)

FIGURE 6

not to scale

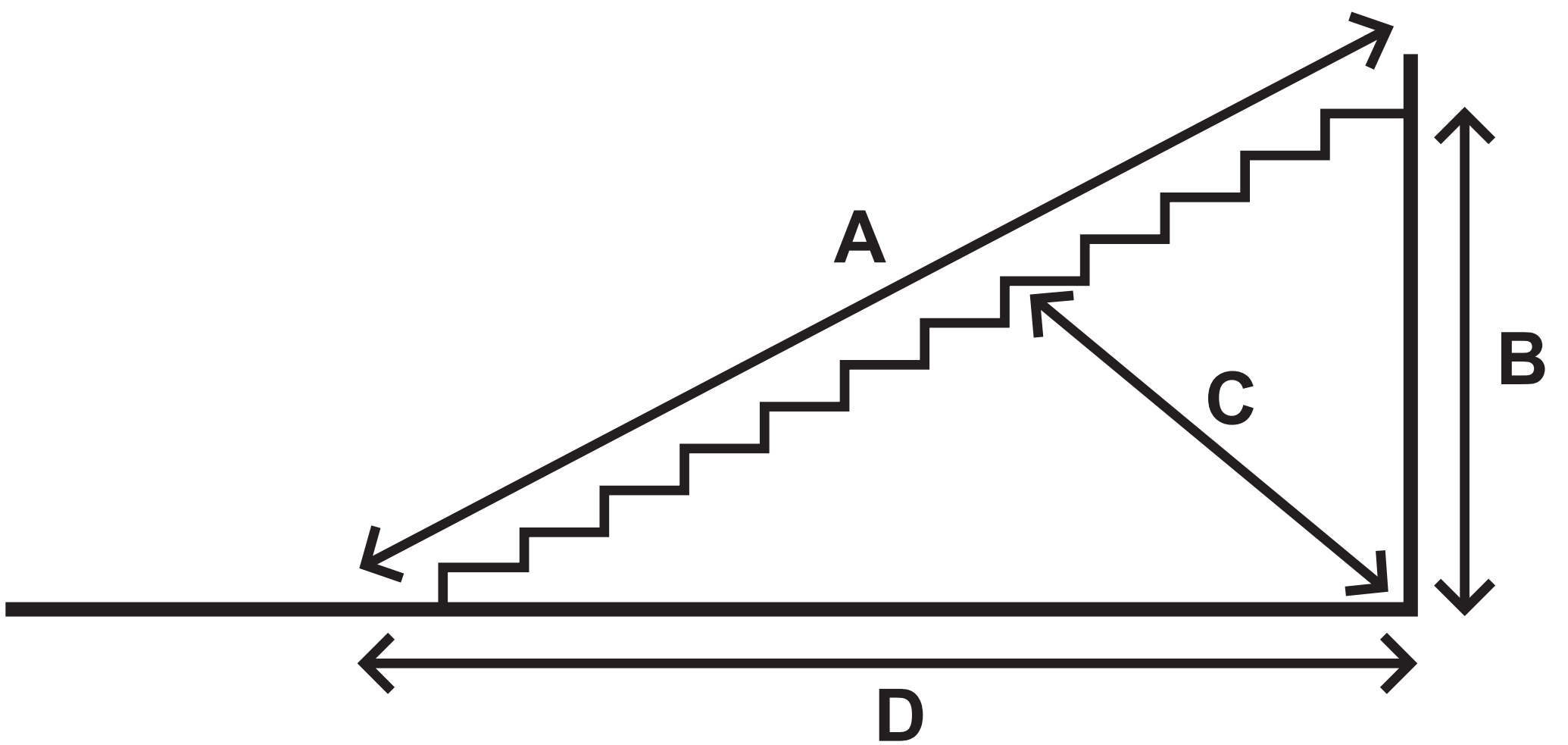
total energy  
supplied to  
the pump  
9000 J



useful energy  
transferred  
by the pump  
8400 J

## Question 4(a)

FIGURE 7



Question 4(b)

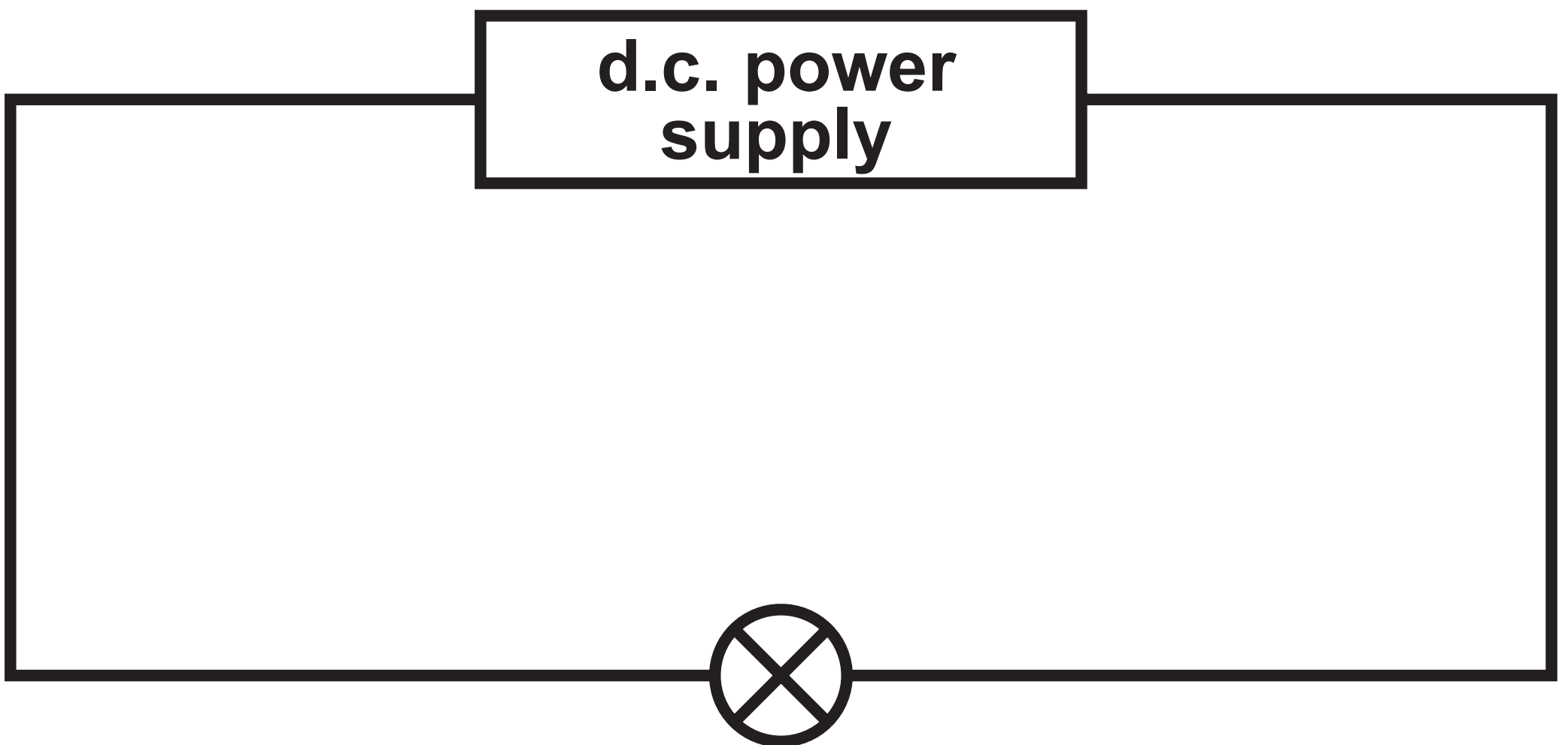
FIGURE 8

student	student estimate of weight in N	distance in m	work done	time taken in s	power in W
A	550	4·0	2200	5·0	440
B		4·0	1960	4·5	436
C	510	4·0	2040		425

14

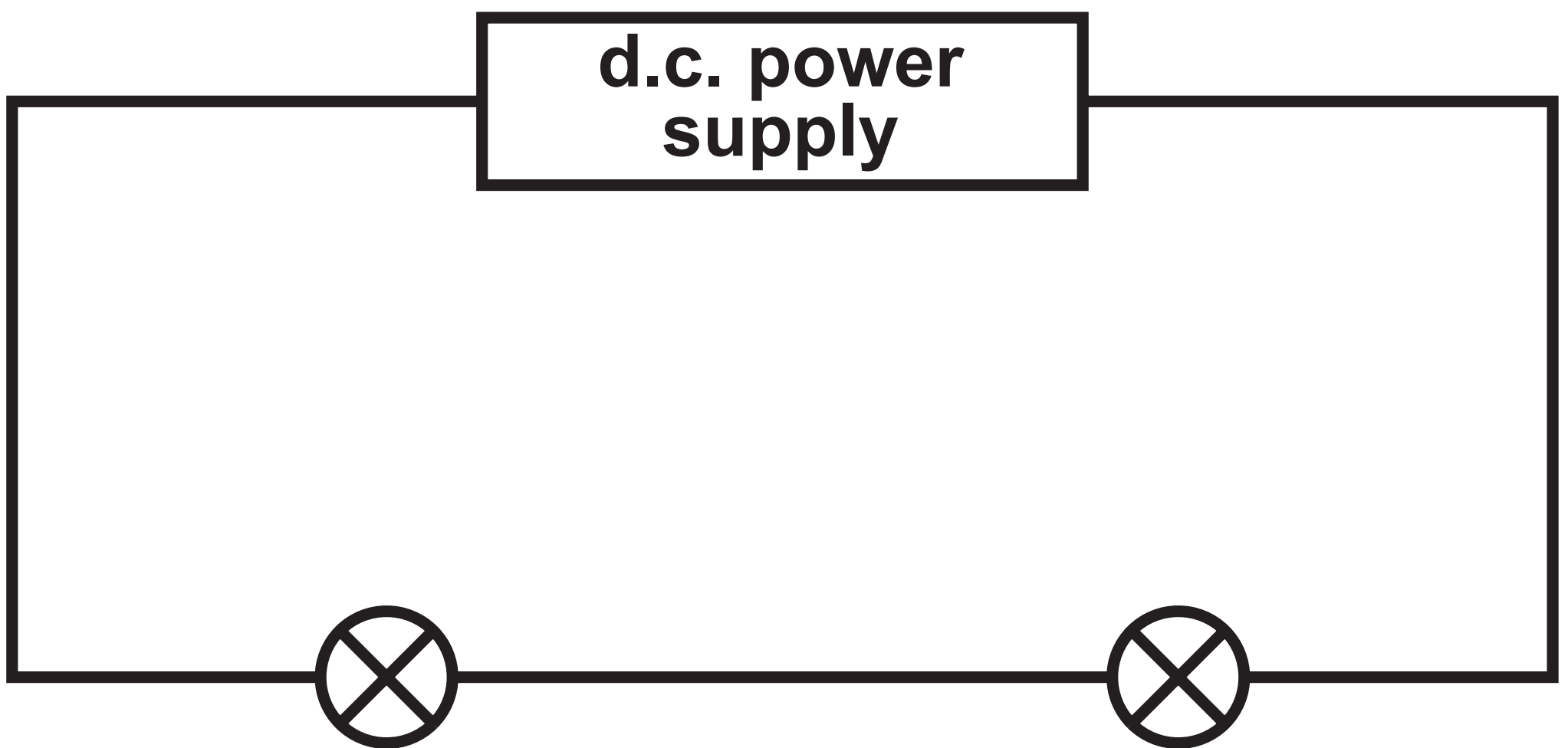
## Question 5(a)

**FIGURE 9**



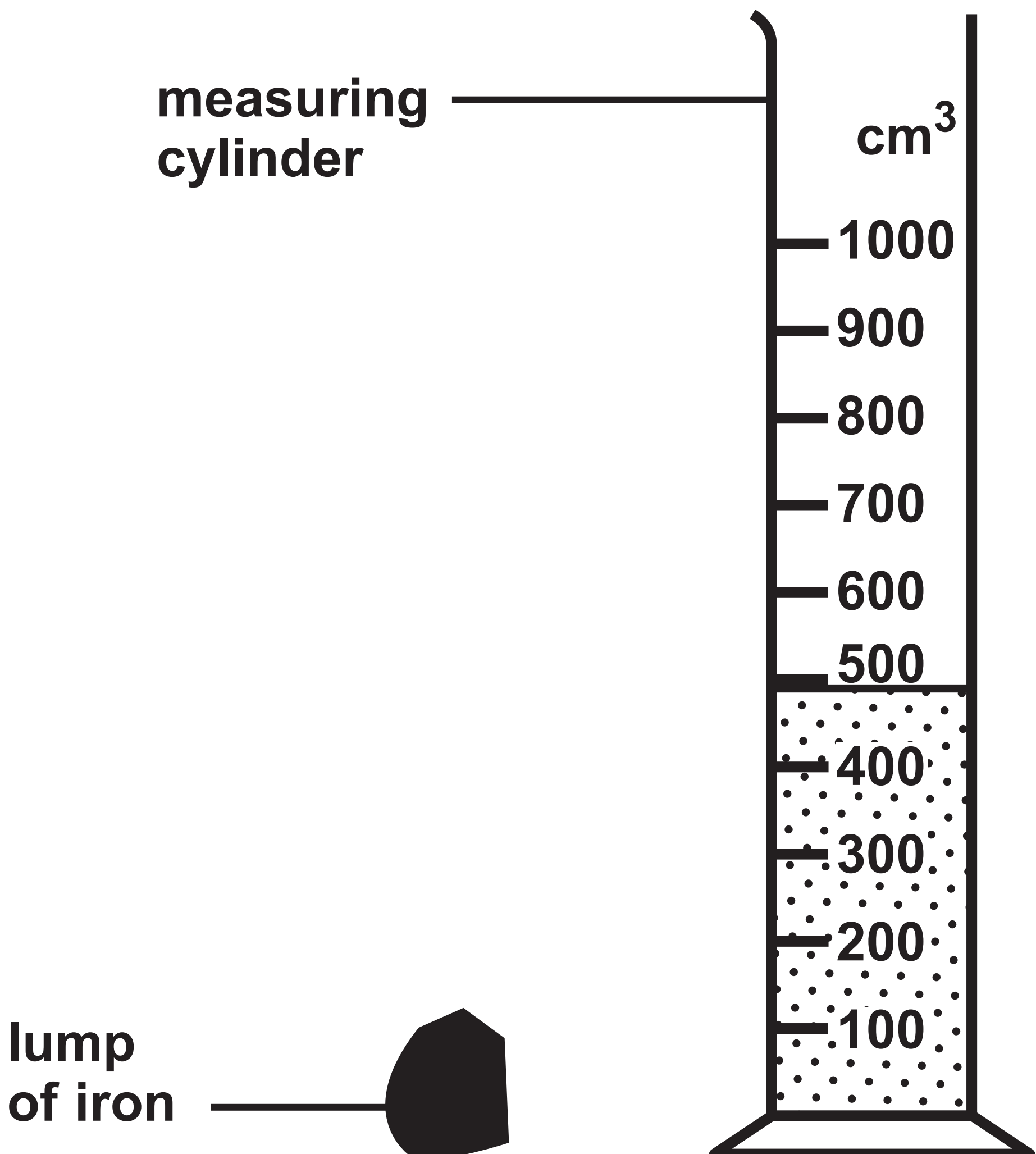
## Question 5(b)

FIGURE 10



## Question 6(b)

FIGURE 11

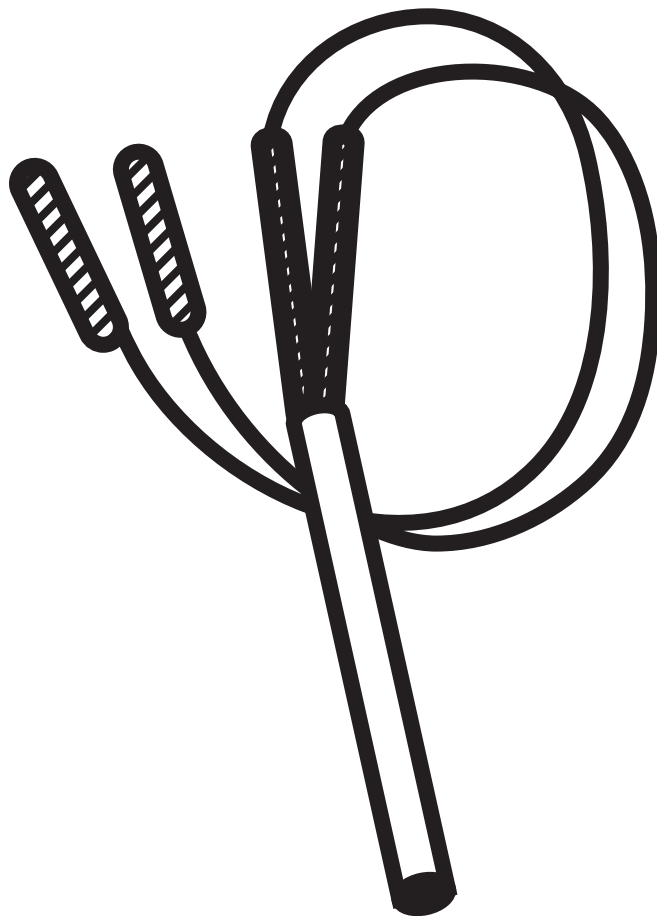




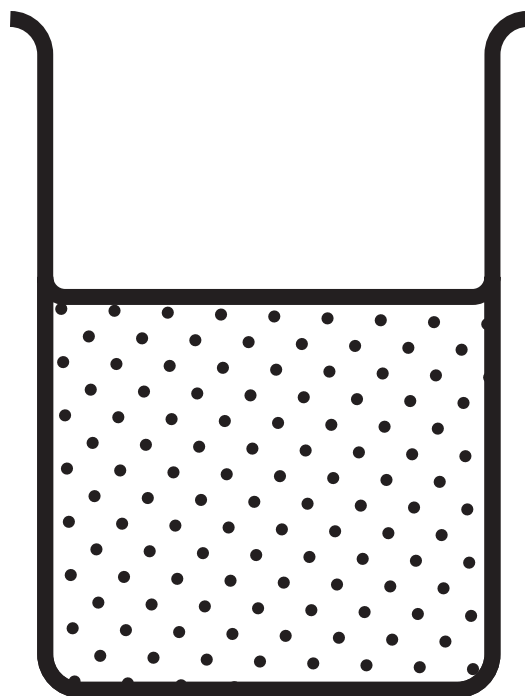
## Question 6(d)

FIGURE 12

low voltage heater



beaker of water



**Question 2(b)(i)**  
**(Source: adapted from MGS Lite app for iPhone)**

**Question 2(b)(ii)**  
**(Source: adapted from MGS Lite app for iPhone)**