

Paper Reference(s) 4PH1/2PR
Pearson Edexcel International GCSE (9–1)

Physics
UNIT: 4PH1
PAPER: 2PR

Friday 14 June 2024 – Afternoon
Time: 1 hour 15 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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Spare Copies

20 Question 2(a)

21 Question 3(a)

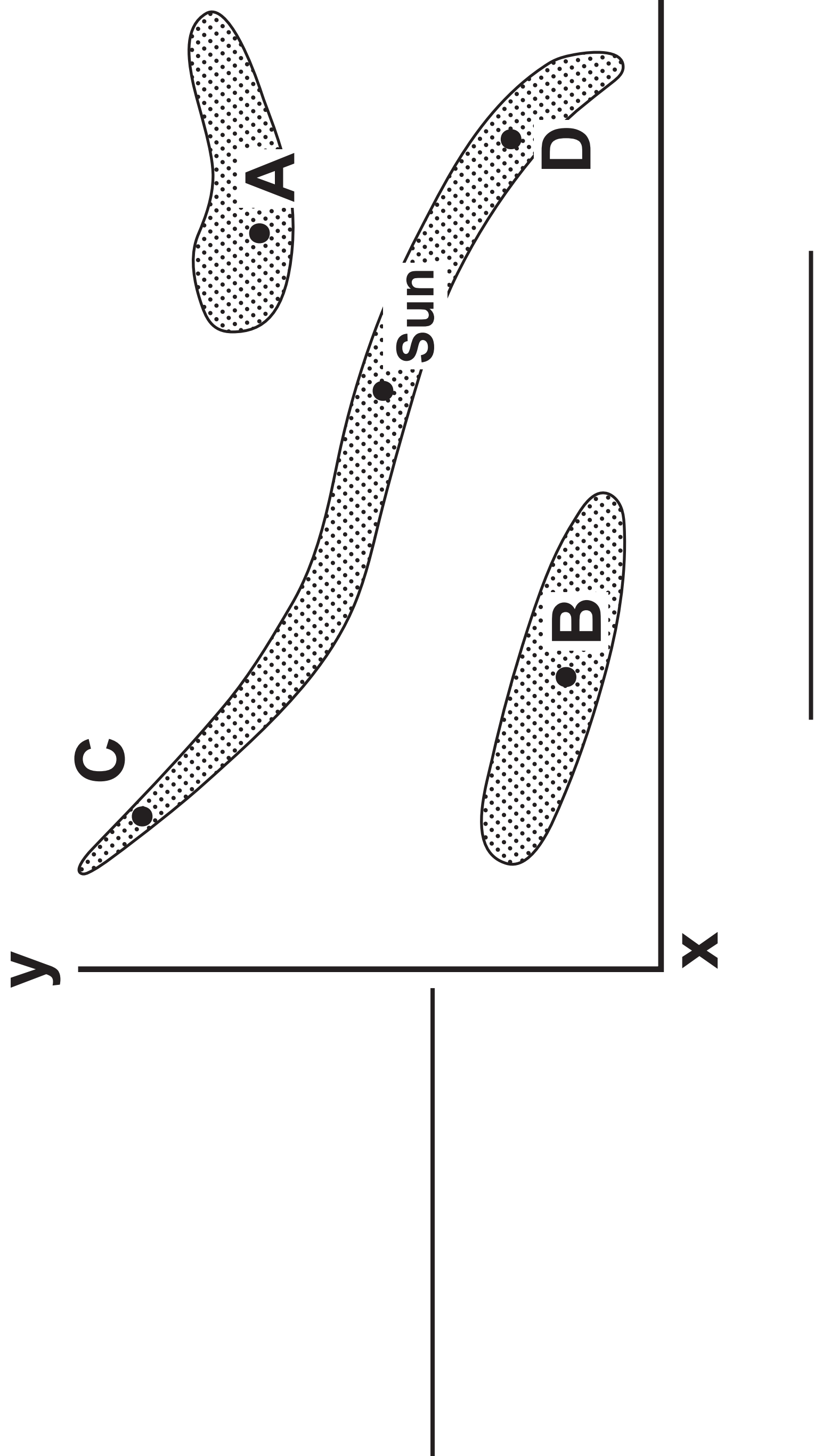
22 Question 3(b)

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Question 1

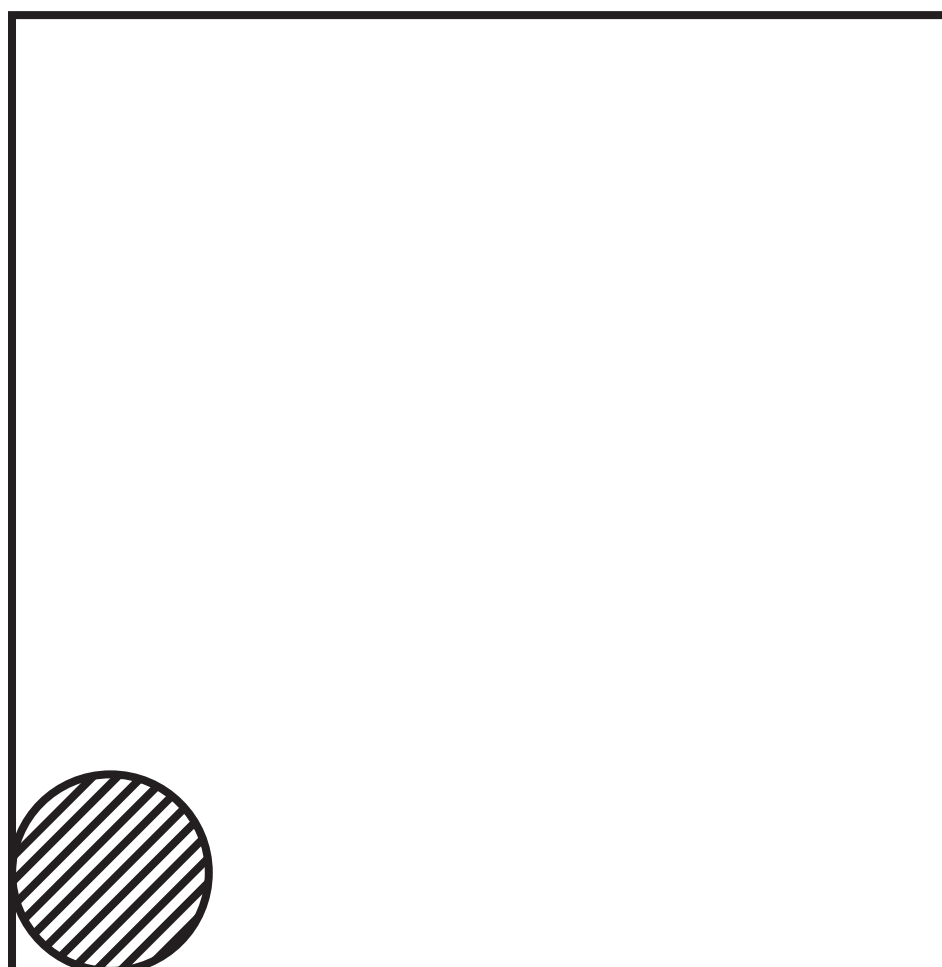


Question 2(a)

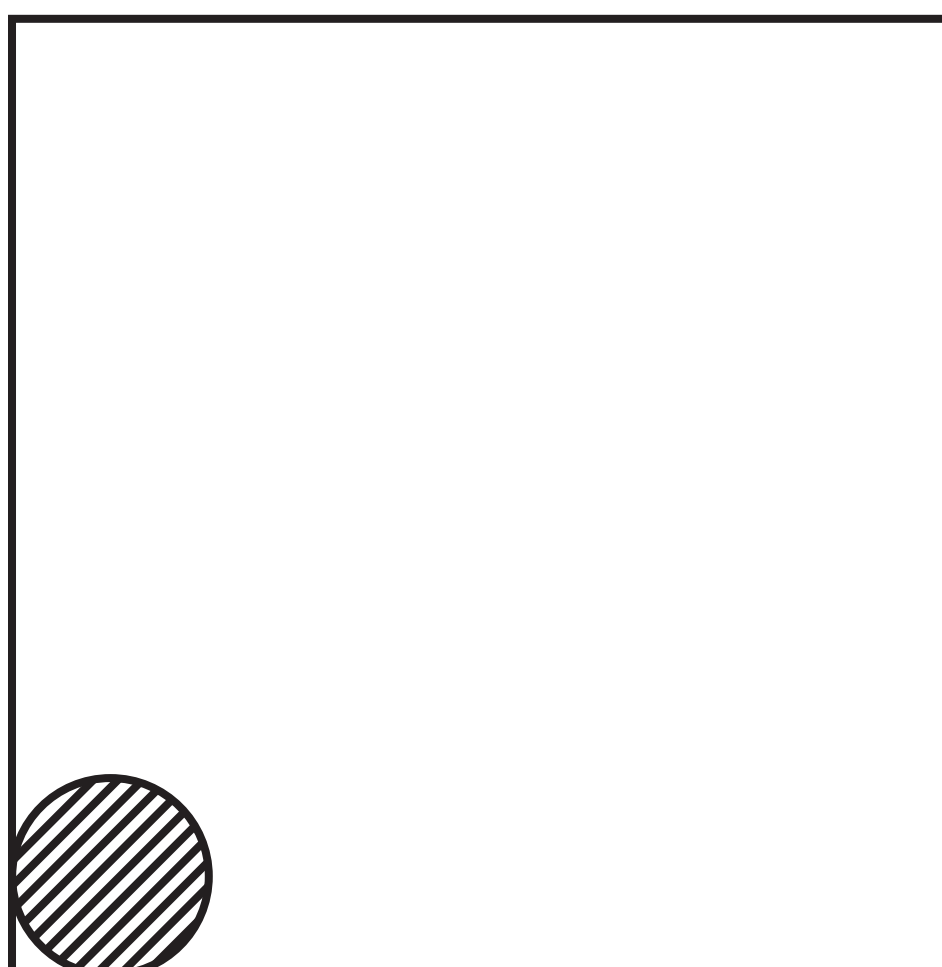
STATEMENT	NUCLEAR FISSION	NUCLEAR FUSION
requires high pressure and high temperature		
energy is released		
radioactive daughter nuclei are produced		

Question 3(a)

Liquid

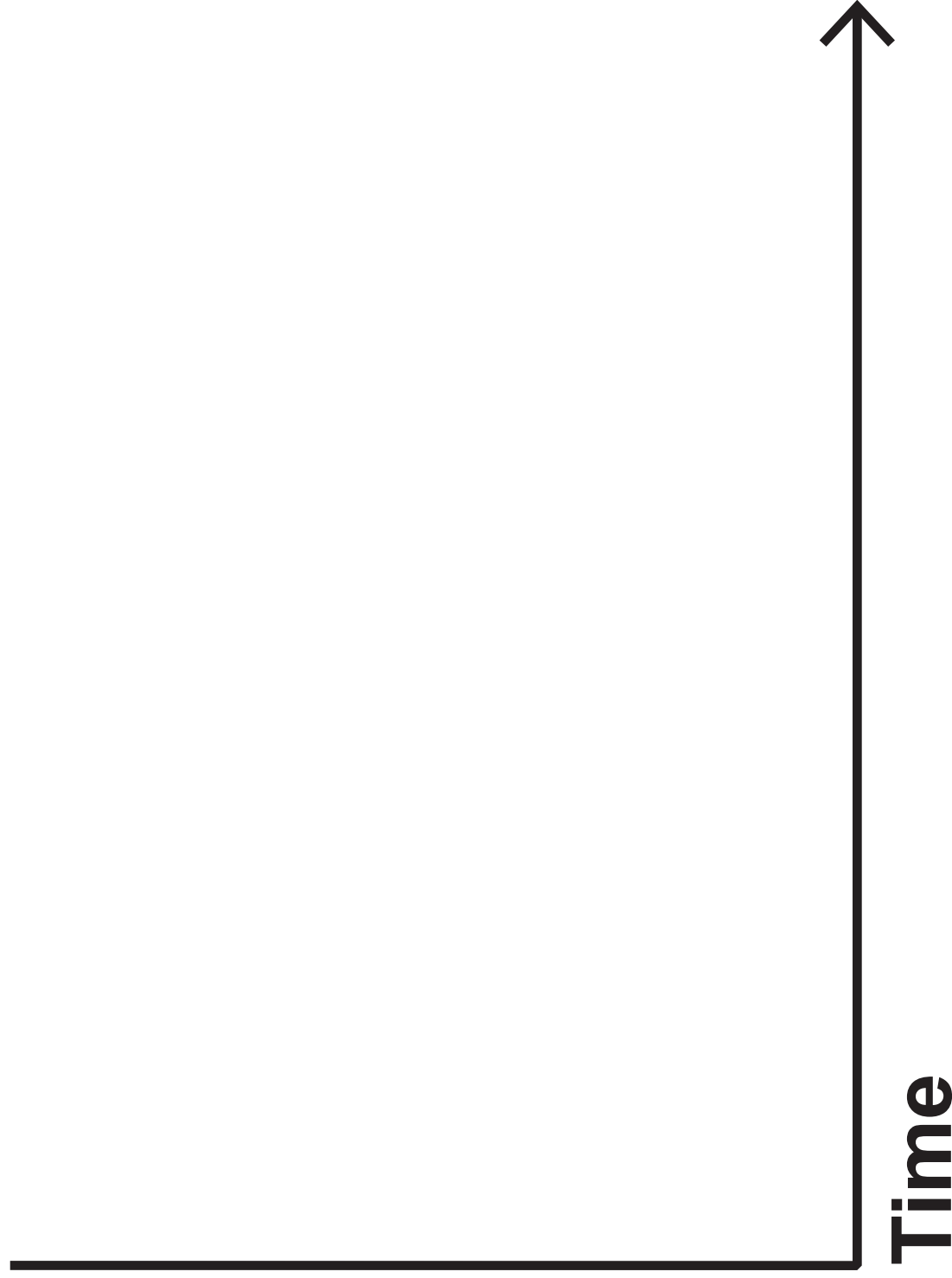


Solid



Question 3(b)

Temperature in °C

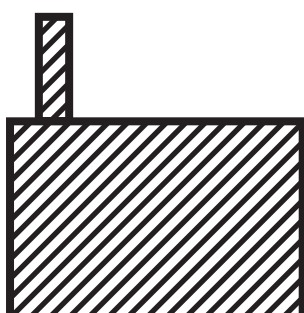


Question 4

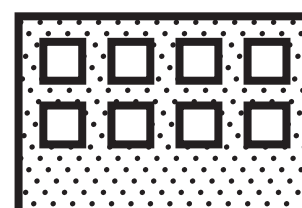


Question 4(a)

Power station



School



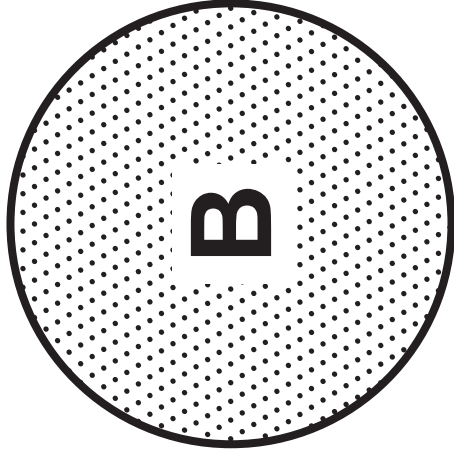
Question 5

BEFORE COLLISION

4.9 m/s



0.018 kg



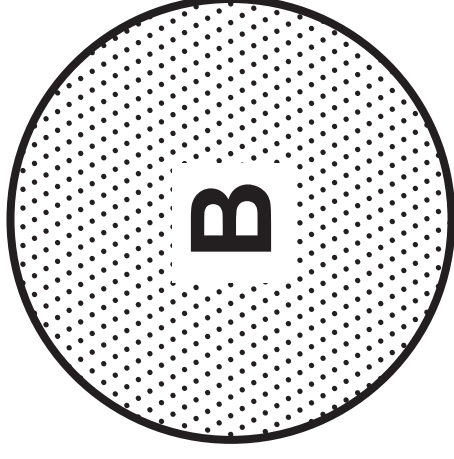
0.265 kg

AFTER COLLISION

3.5 m/s



0.018 kg



0.265 kg

Question 6(a)

Photograph 1



(continued on the next page)

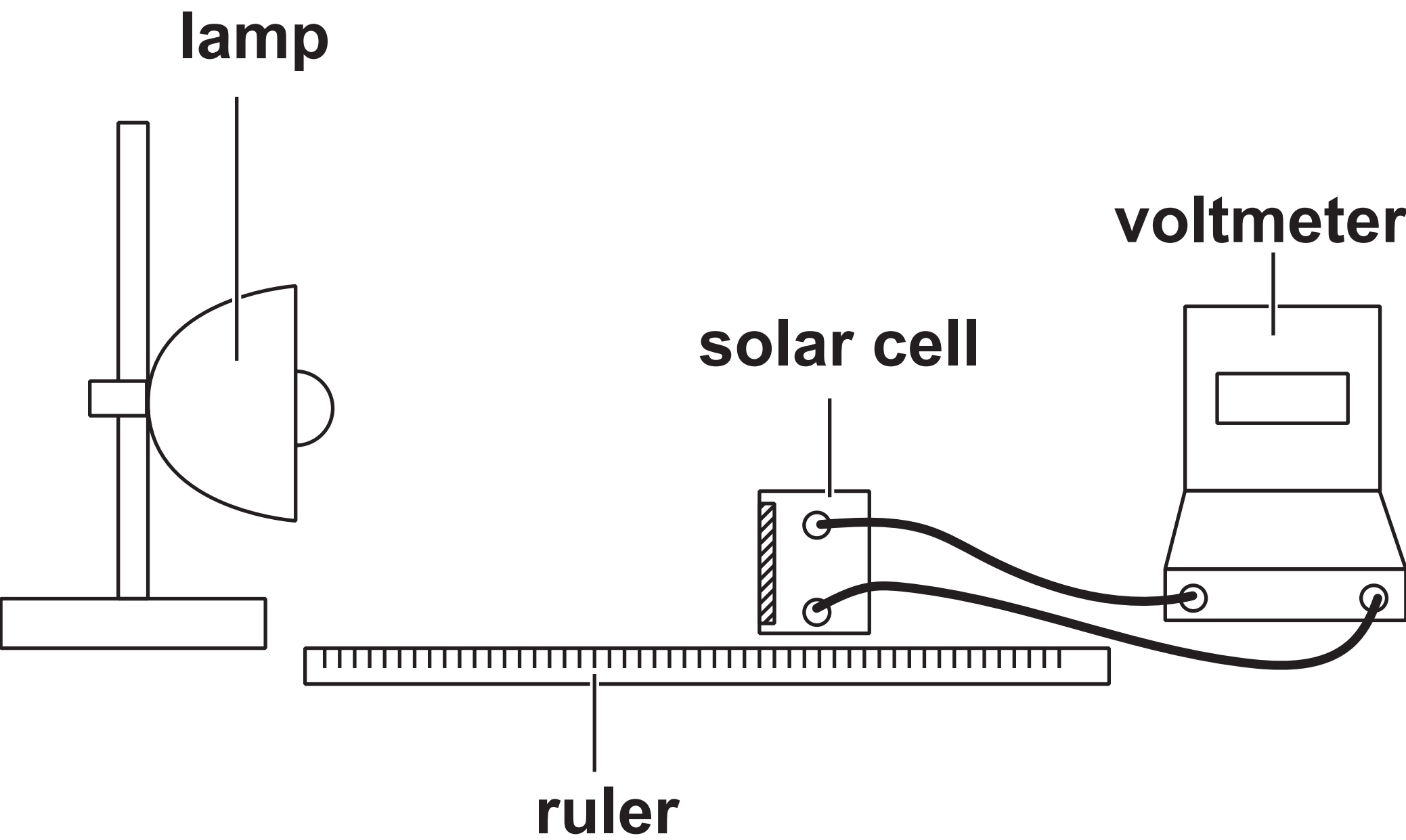
Turn over

Question 6(a) continued.

Photograph 2

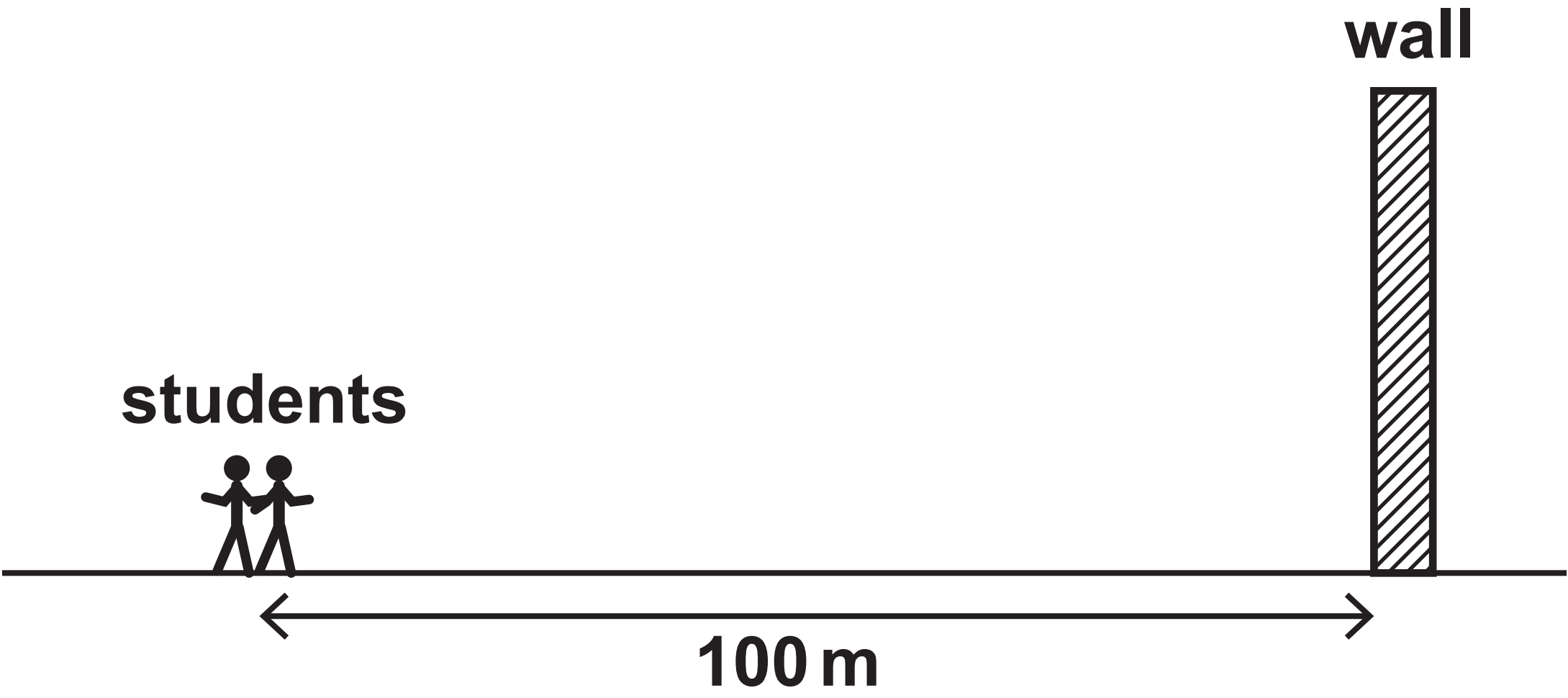


Question 6(b)



Question 6(b)(i)**5 cm, 0.45 V****14 cm, 0.06 V****8 cm, 0.18 V****17 cm, 0.04 V****11 cm, 0.10 V****20 cm, 0.03 V**

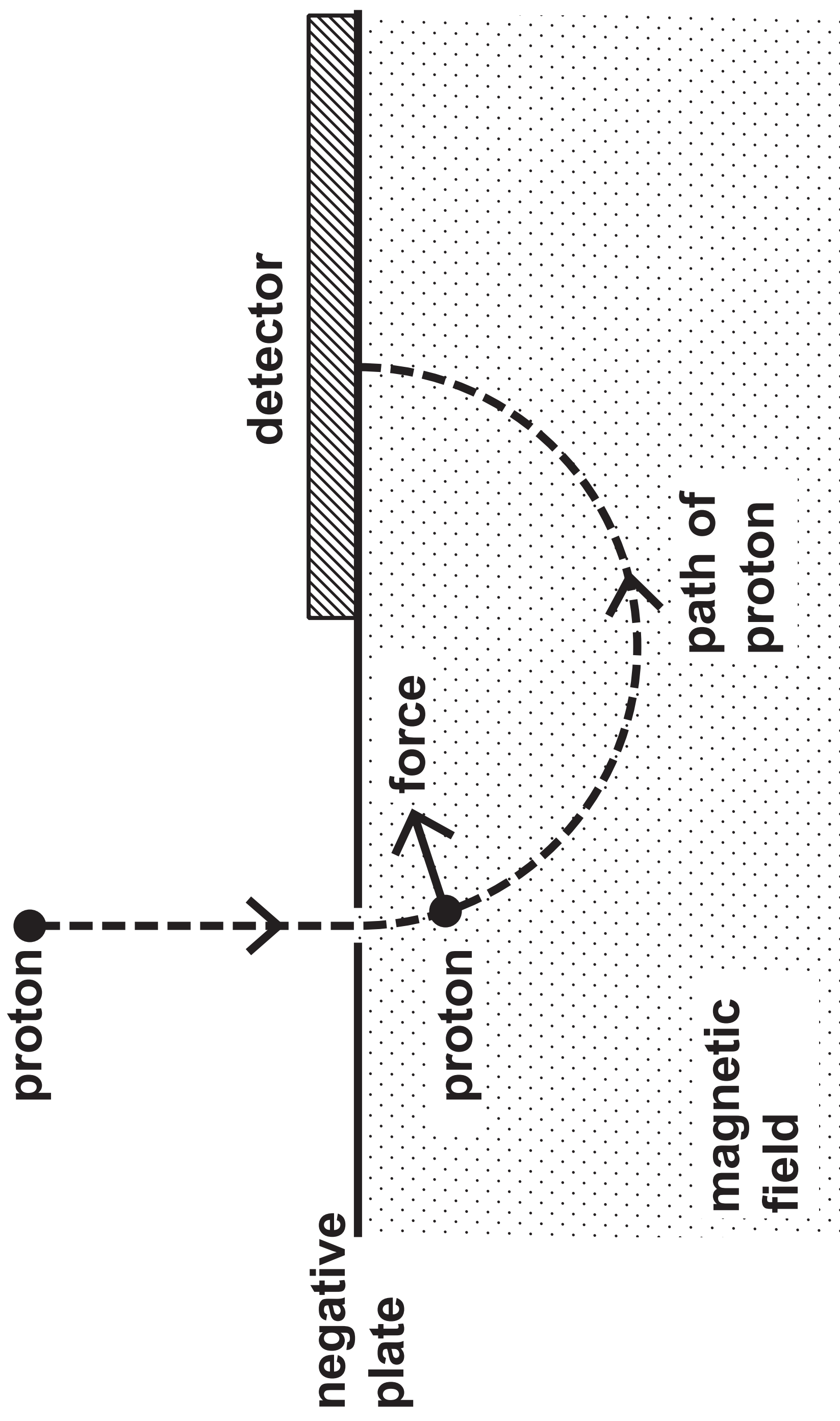
Question 7



Question 7(b)

Time between starting and stopping timer in seconds					
TEST 1	TEST 2	TEST 3	TEST 4	TEST 5	MEAN
11.80	11.18	11.76	11.75	11.72	

Question 8

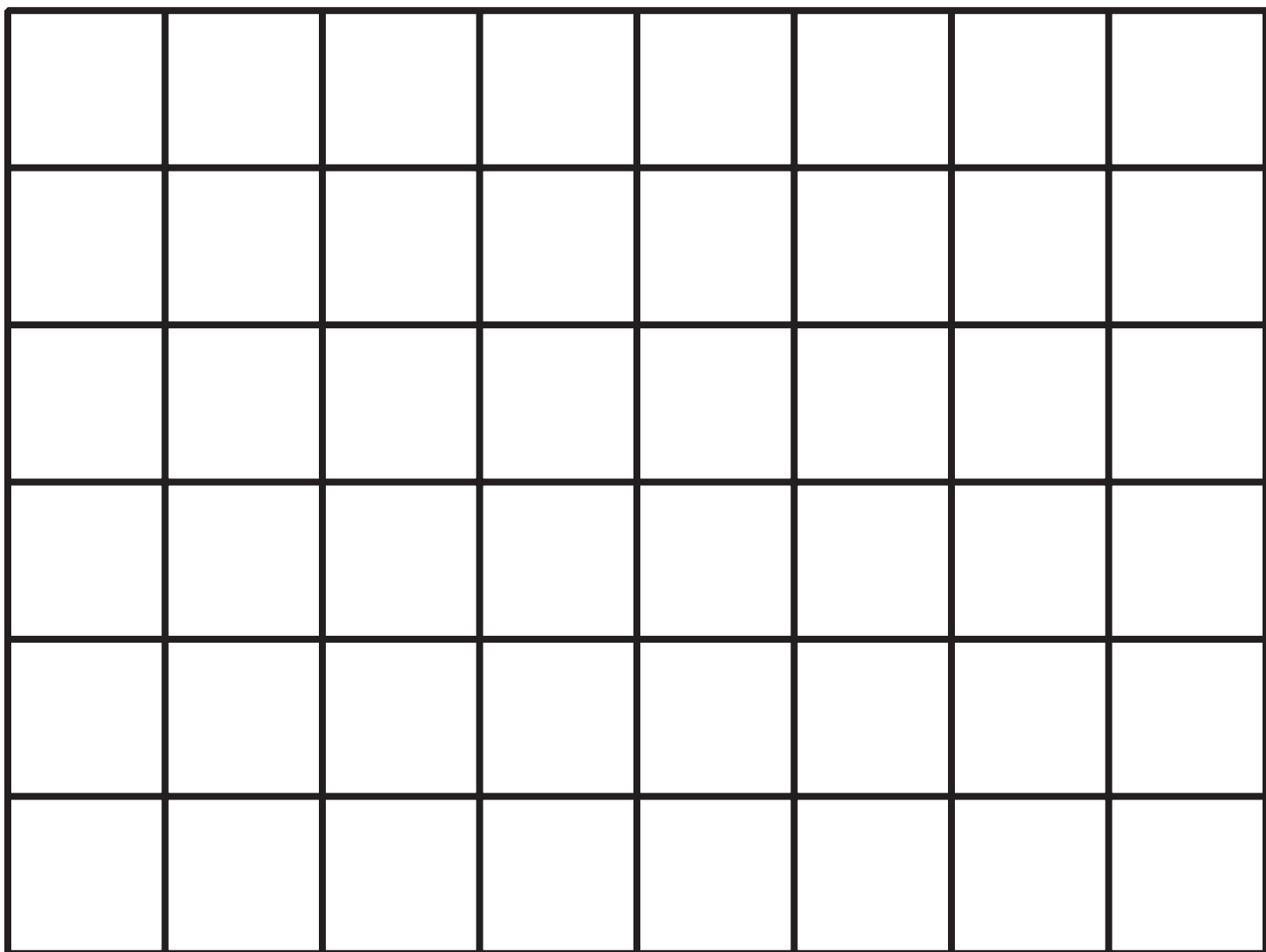


Question 9(b)

oscilloscope settings:

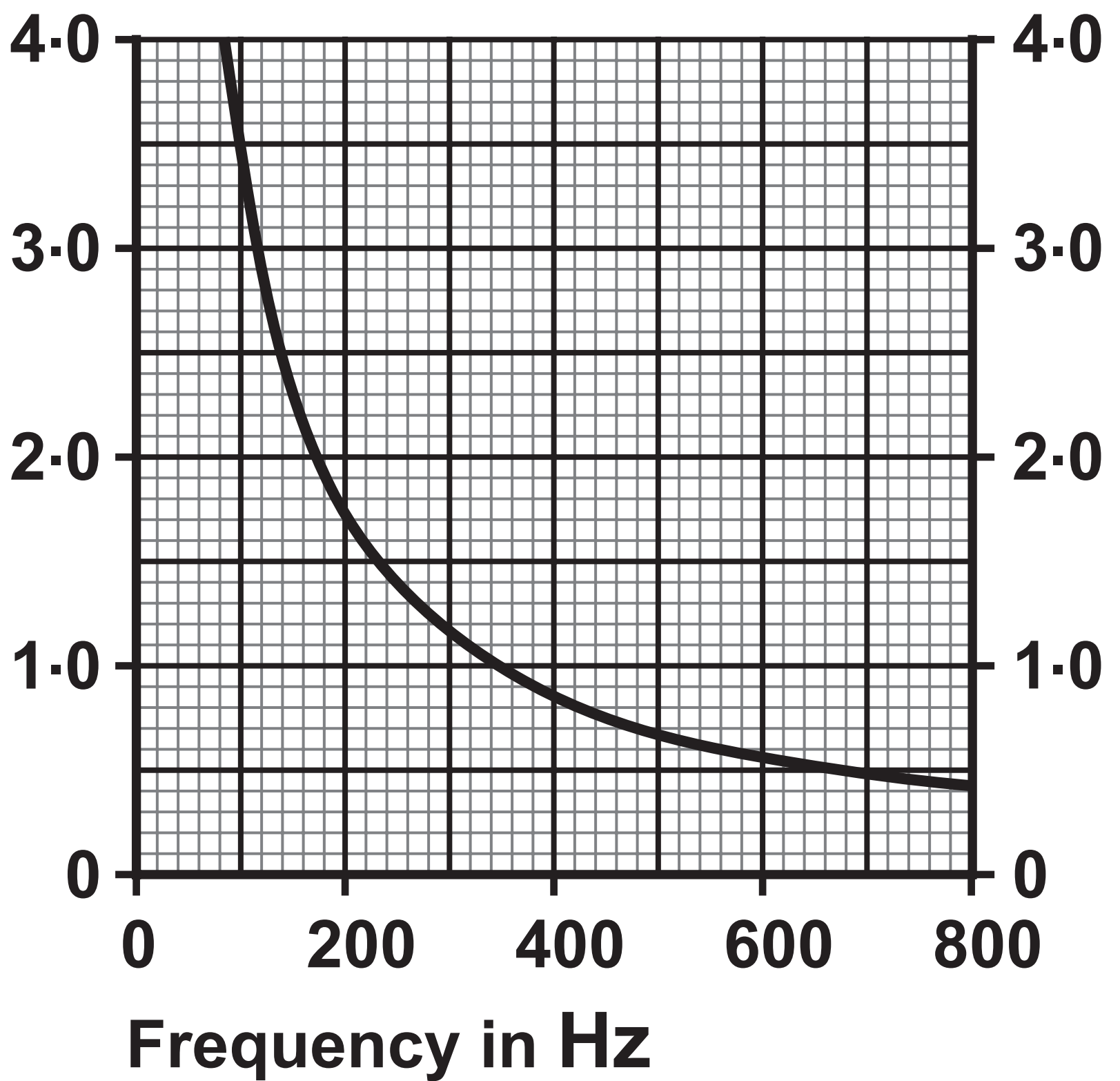
y direction: 1 square = 2 V

x direction: 1 square = 0.001 s



Question 9(c)

Wavelength in m

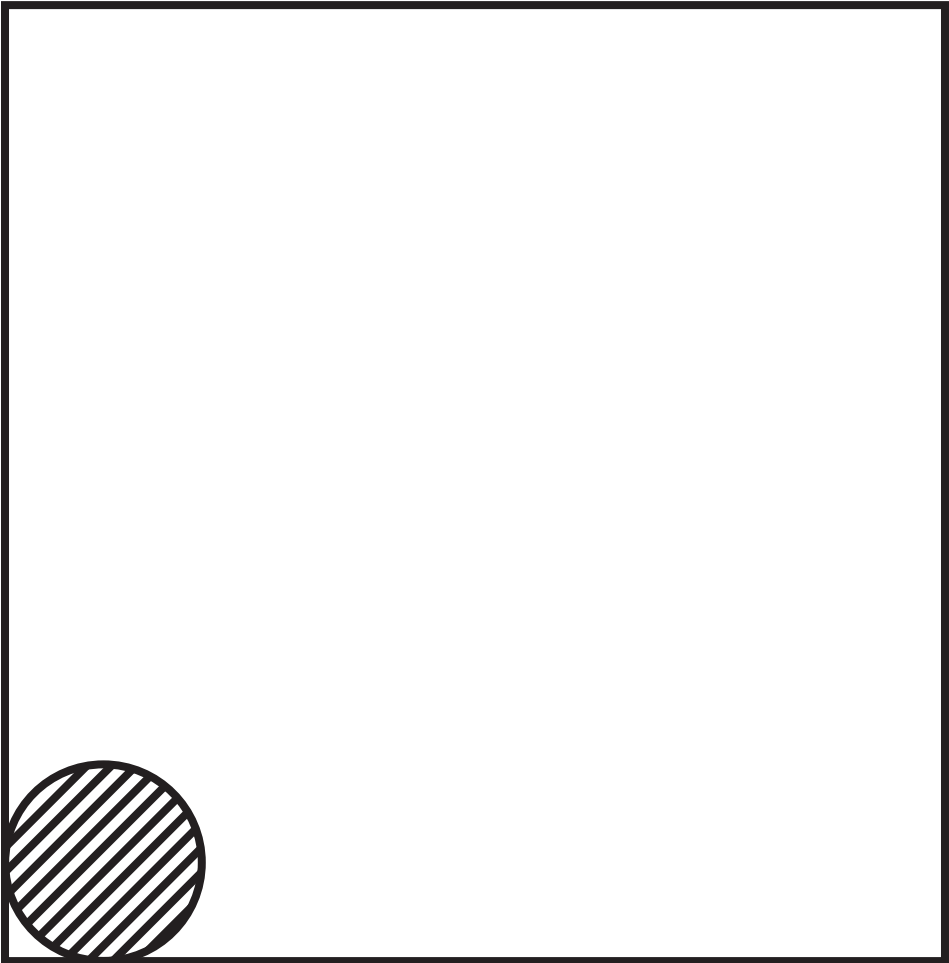


Question 2(a)

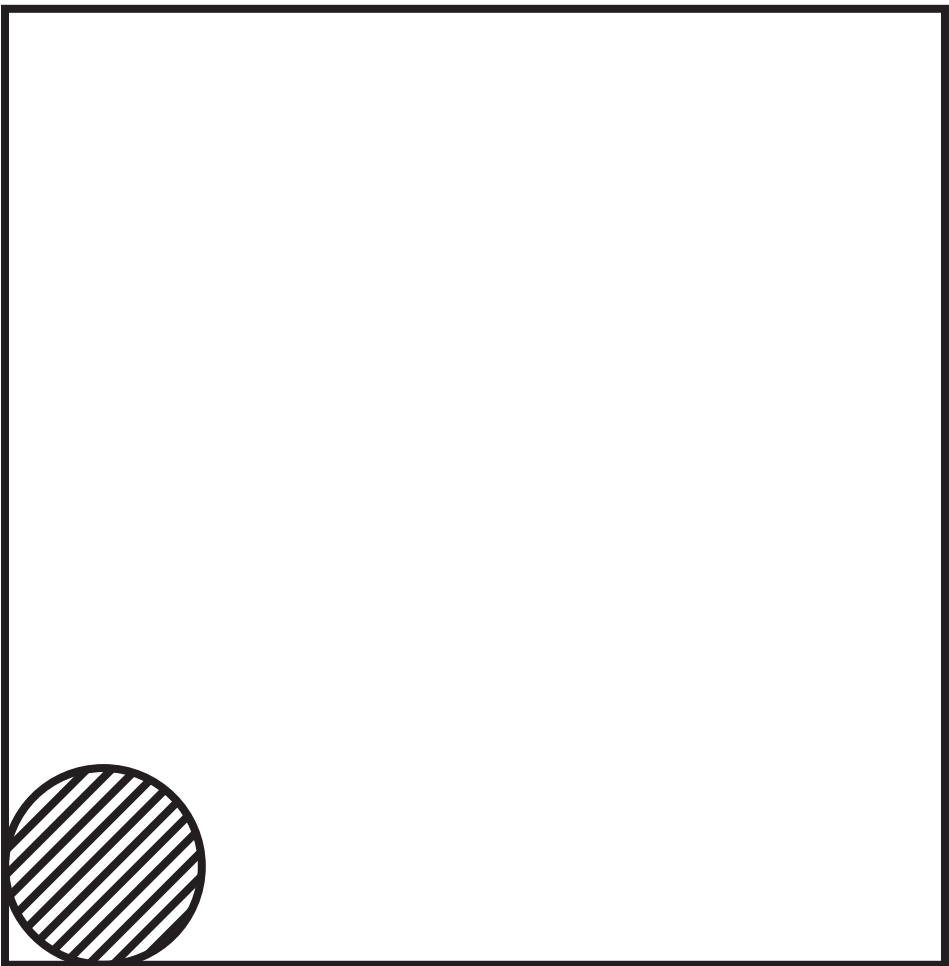
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Question 3(a)

Liquid

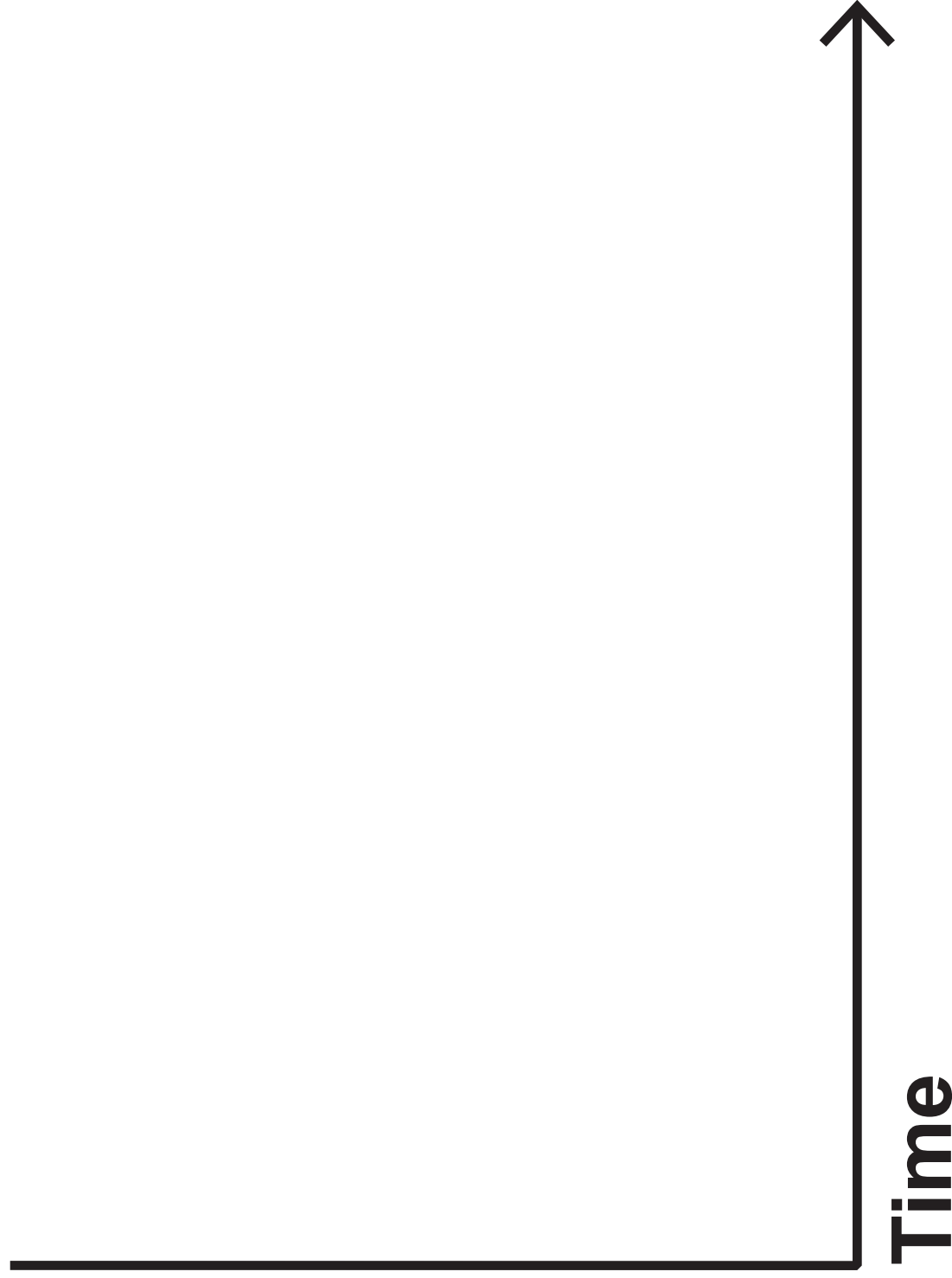


Solid



Question 3(b)

Temperature in °C



Question 4(a)

Power station

School



Question 7(b)

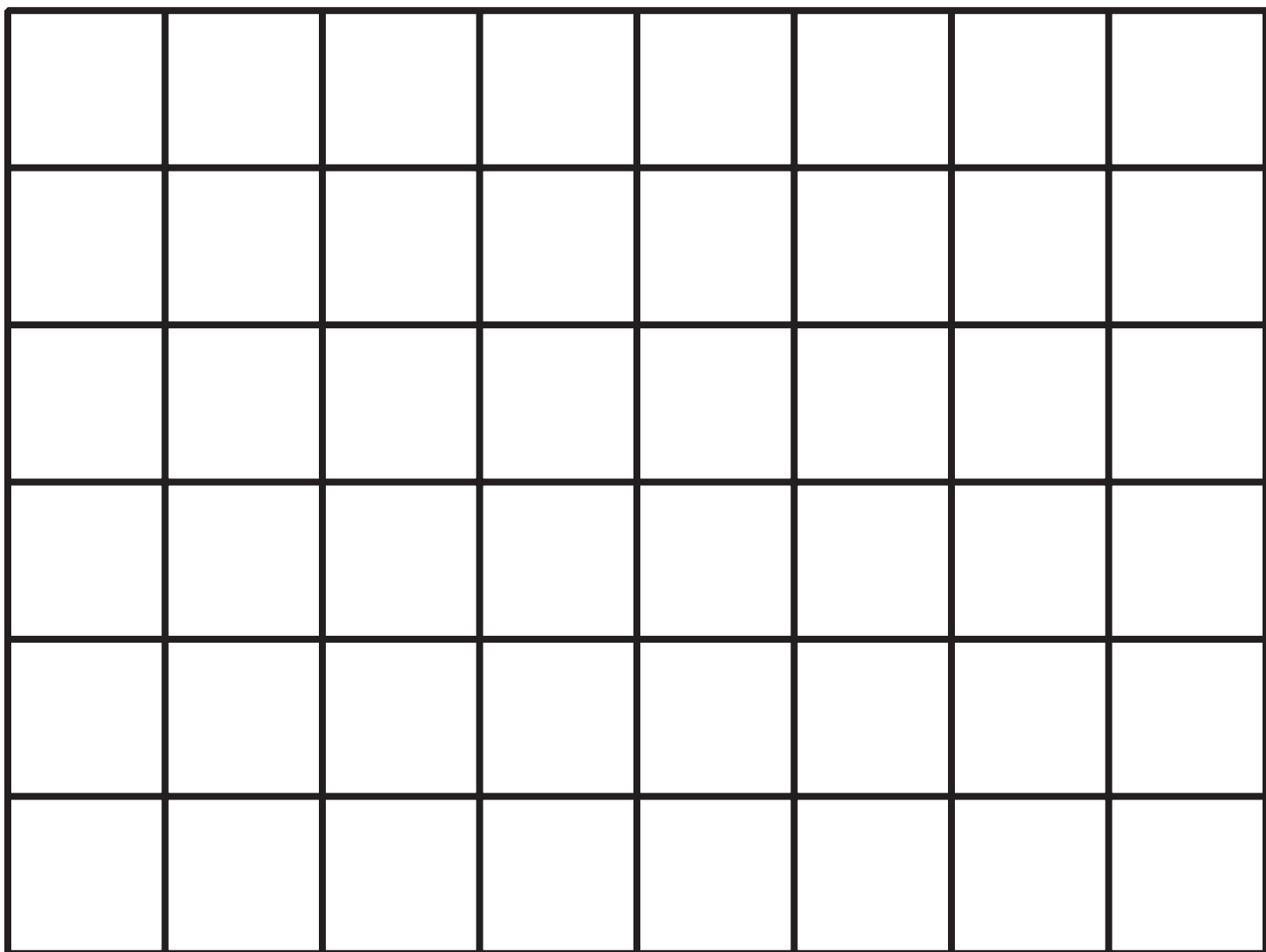
Time between starting and stopping timer in seconds					
TEST 1	TEST 2	TEST 3	TEST 4	TEST 5	MEAN
11.80	11.18	11.76	11.75	11.72	

Question 9(b)

oscilloscope settings:

y direction: 1 square = 2 V

x direction: 1 square = 0.001 s



Source information:

Question 4

(Source adapted from: © Paul Maguire / Shutterstock)

Question 6(a)

(Source: © Marcin Jucha / Shutterstock)

(Source: © Javarman / Shutterstock)