

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

Combined Science
Paper 3
Foundation Tier

Diagram Booklet

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.

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

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Question 1(a)

USE OF WAVE

to detect forged
banknotes

to detect broken
bones

for night-vision
cameras

to sterilise medical
equipment

ELECTROMAGNETIC
WAVE

radio waves

microwaves

infrared waves

visible light

ultraviolet waves

X-rays

gamma rays



Question 1(a)

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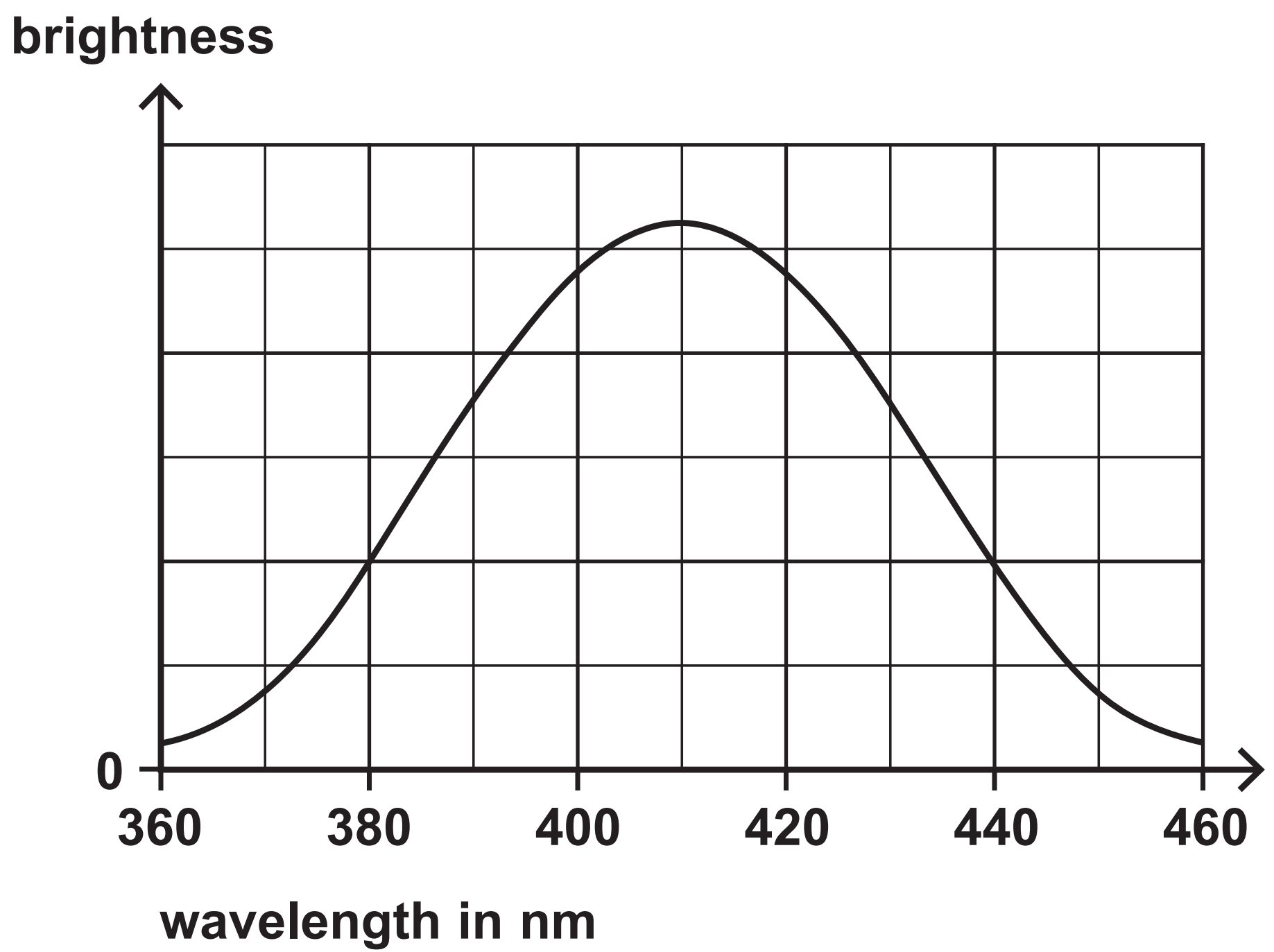
X-rays

gamma rays



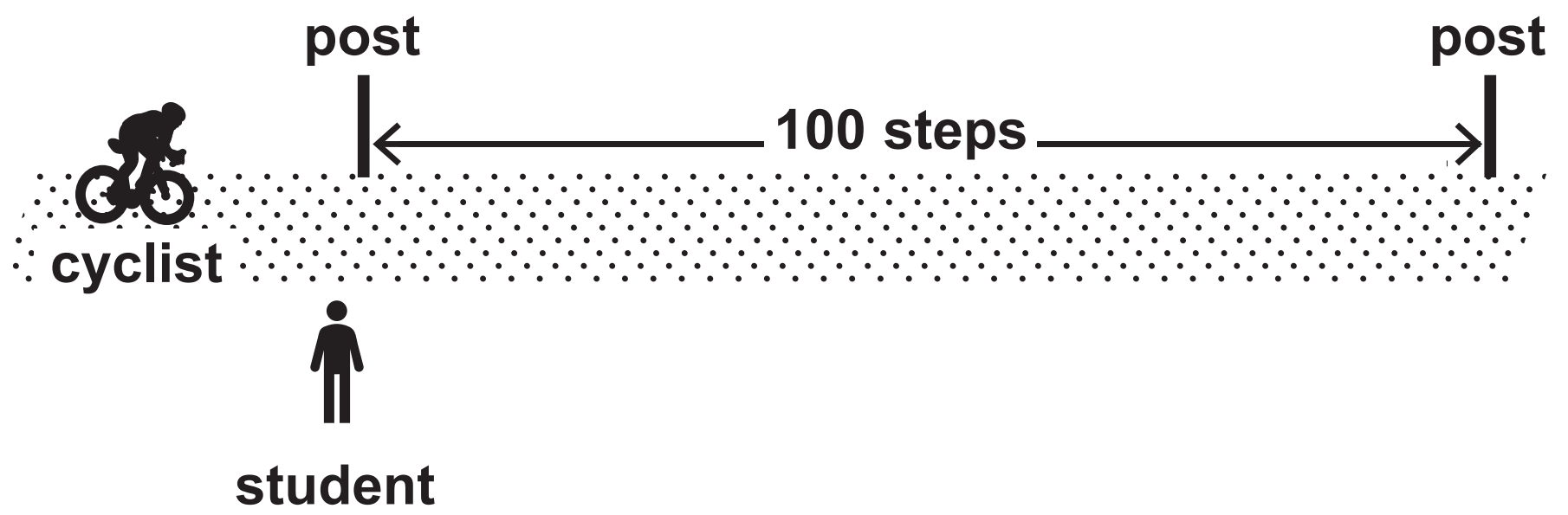
Question 1(c)

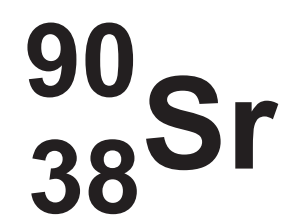
FIGURE 1



Question 2(c)

FIGURE 2



Question 3(a)**FIGURE 3**

Question 3(b)

FIGURE 4

mass of strontium-90 in g	time in years
1600	0
<div></div>	29
400	<div></div>

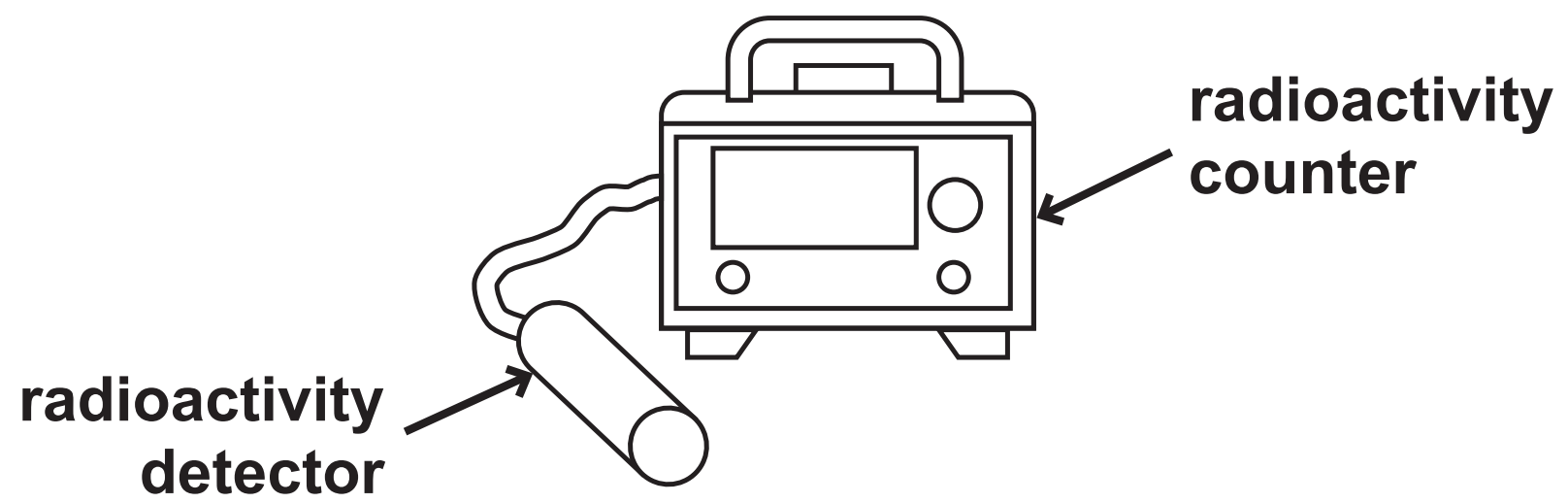
Question 3(b)

FIGURE 4

mass of strontium-90 in g	time in years
1600	0
<div></div>	29
400	<div></div>

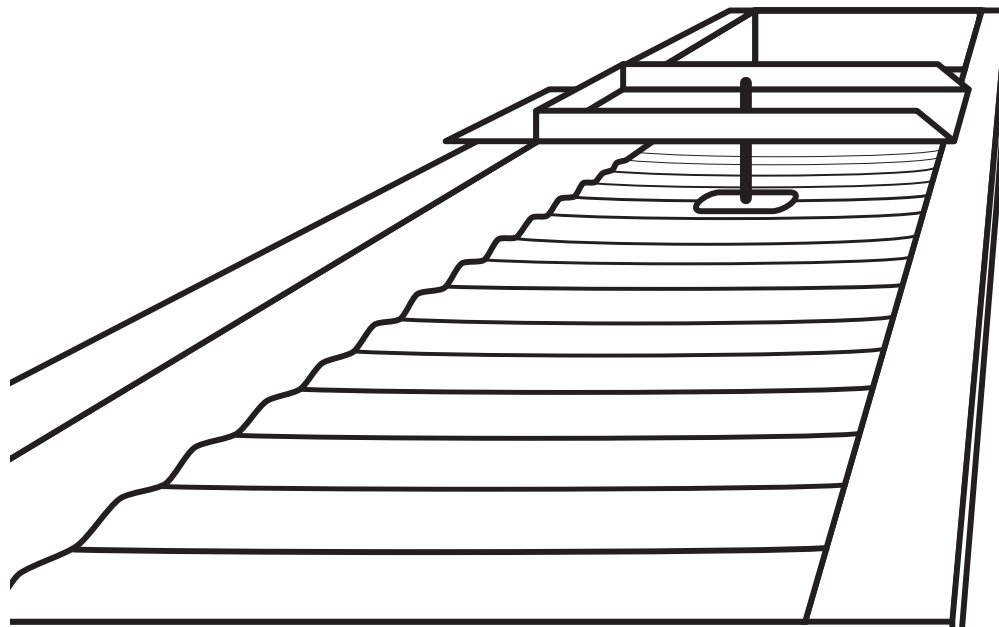
Question 3(c)

FIGURE 5



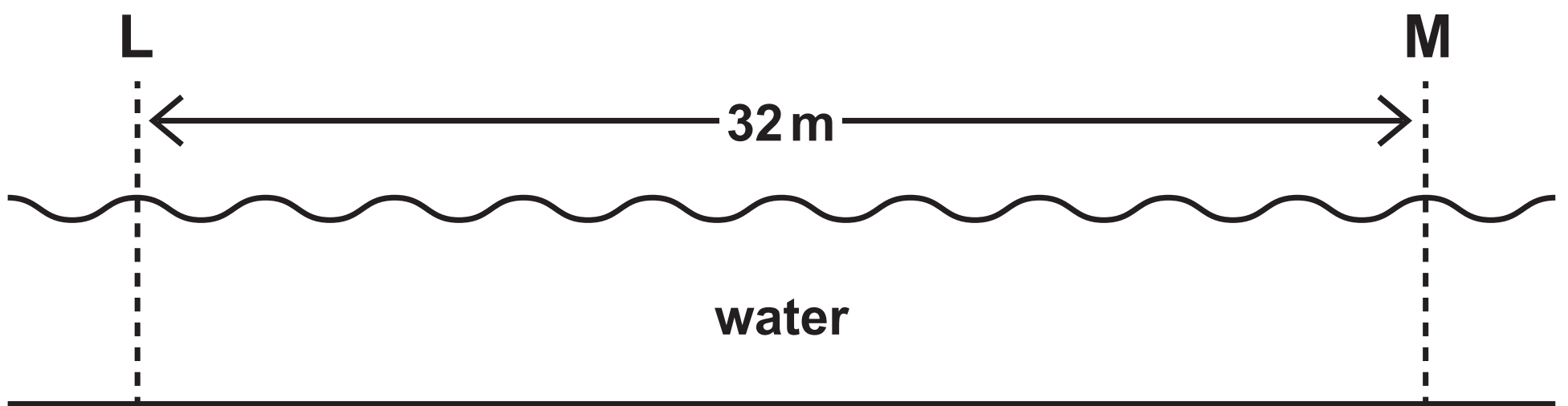
Question 4(a)

FIGURE 6



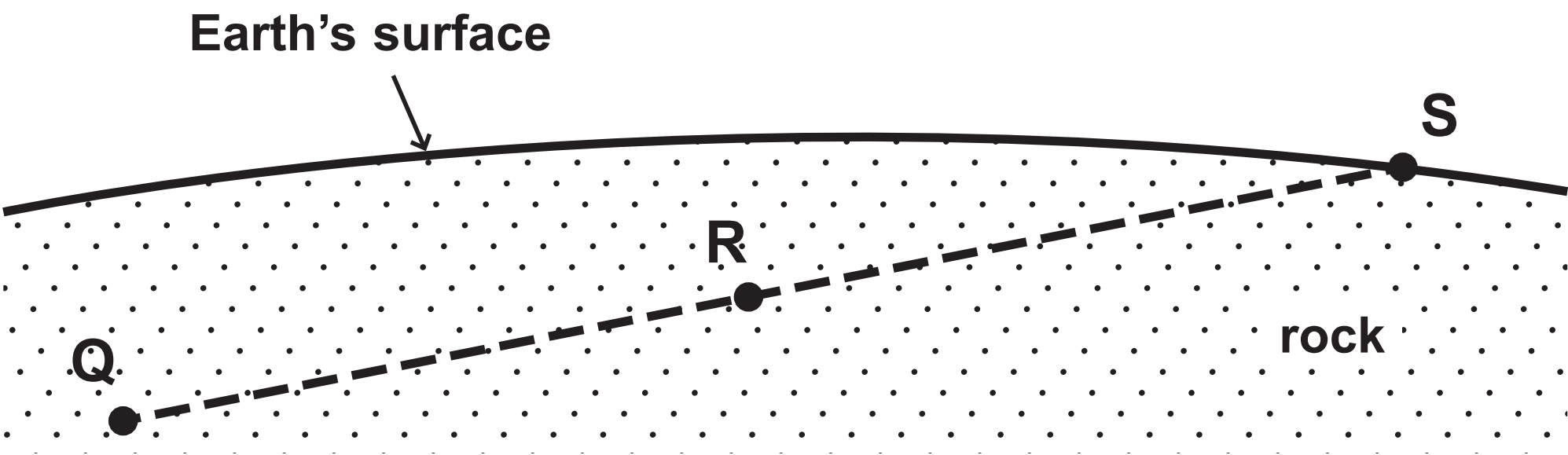
Question 4(a)(ii)

FIGURE 7



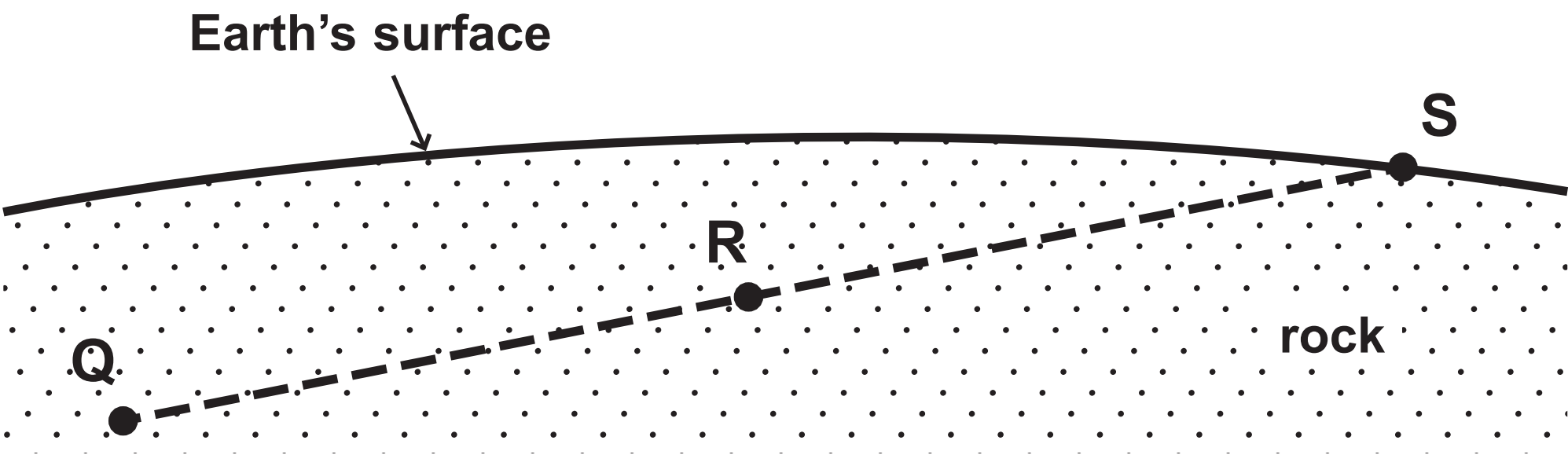
Question 4(b)

FIGURE 8



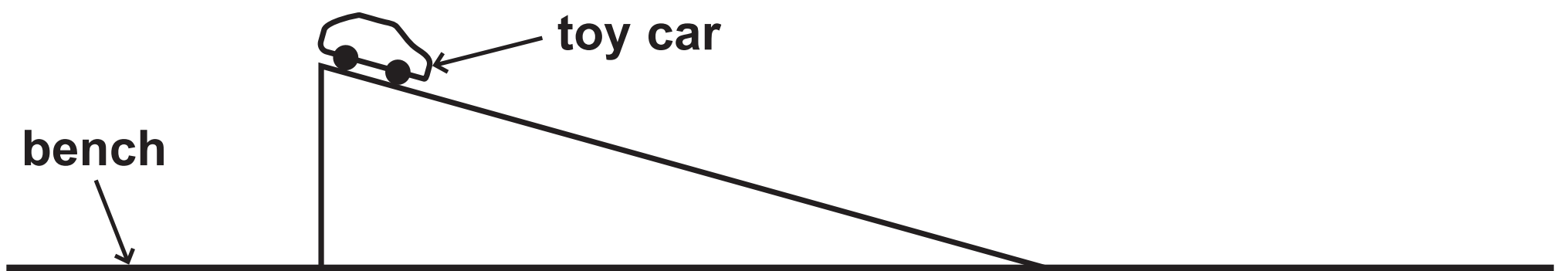
Question 4(b)

FIGURE 8



Question 5

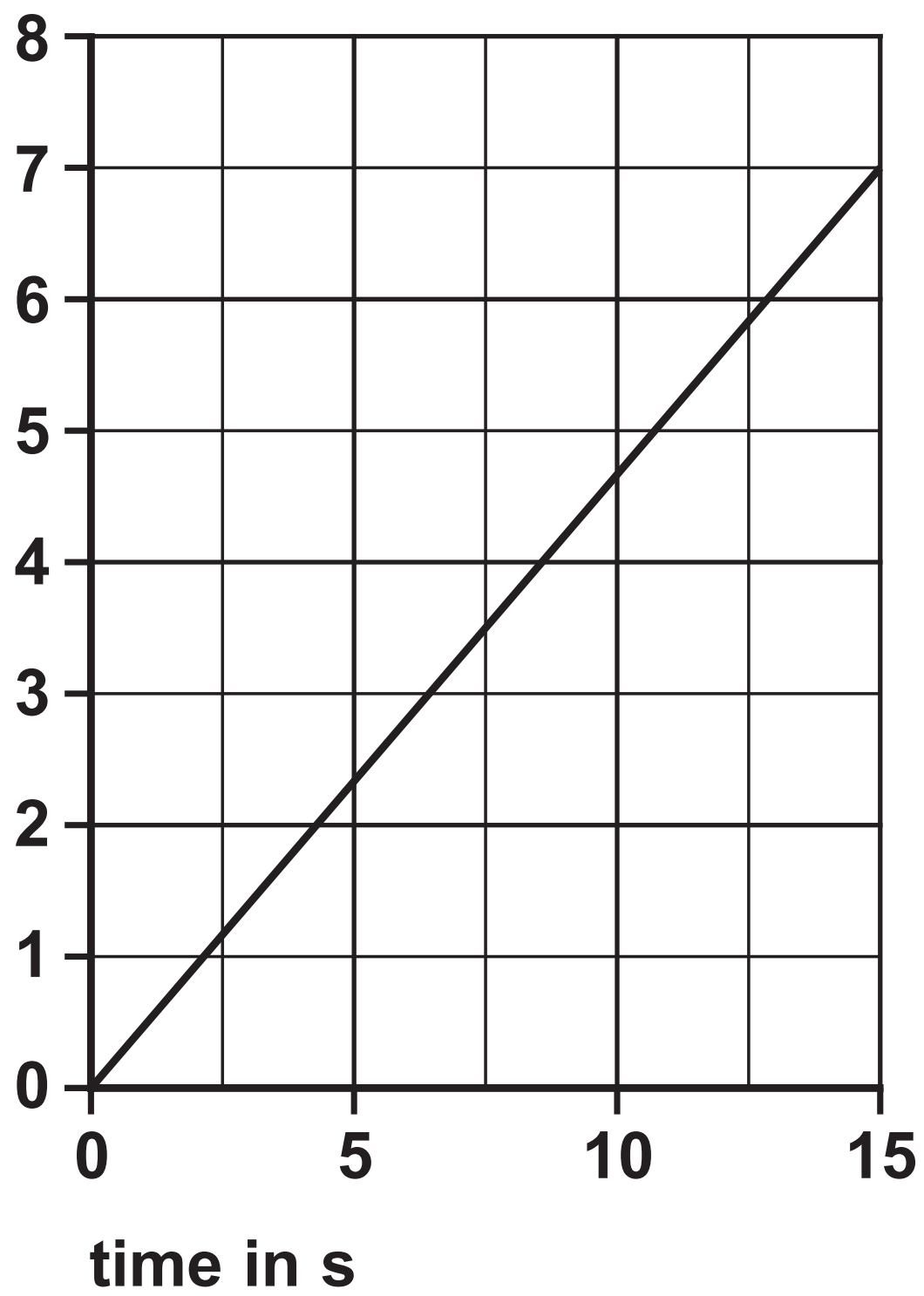
FIGURE 9



Question 6(c)

FIGURE 10

velocity
in m/s



Question 3(c)

(Source adapted from: www.einstein.yu.edu)

Question 4(a)

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