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iGCSE & GCSE Physics

Examiners' Edition

Securing Grade 9s

FREE SAMPLE

Pearson Edexcel 4PH1, 1PH0, 1SC0

8 topic booklets, one for every topic

The marks students lose year after year, and how to stop losing them.
Every booklet comes with exam-style practice questions and full mark schemes.

This sample shows a few pages from one of the topics.



Forces and Motion

40 common mistakes · 77 practice questions · full mark schemes

All questions are original: none are taken or adapted from a real past paper.

 Piccadilly Business Centre, Unit C, Aldow Enterprise Park
Blackett Street, Manchester, M12 6AE



5 Motion graph shapes

iGCSE	All students
GCSE	All students

✗ Common mistake

Mixing up distance–time and velocity–time graphs.

✓ Do this instead

- Constant velocity: a straight sloping line on a distance–time graph, and a horizontal line on a velocity–time graph.
- Constant acceleration: a curve getting steeper on a distance–time graph, and a straight sloping line on a velocity–time graph.

IN THE EXAM

Over 50% of students scored 0 when drawing a velocity–time graph. (Jan 2020, 1P)

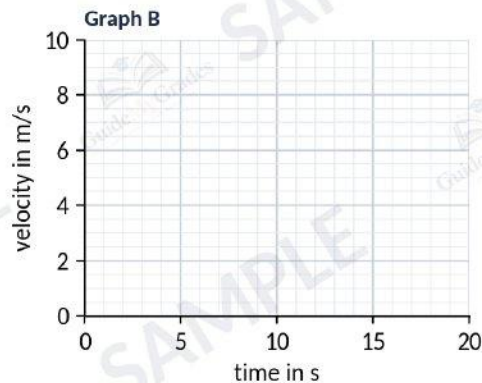
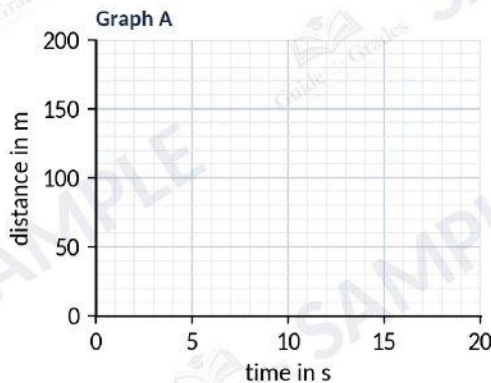
Exam tip: Read the y-axis label before you sketch or read anything.

Examiners flagged this in: Jan 2020 1P Q5, Nov 2021 1P Q1, Jun 2023 1PR Q8, Nov 2024 1P Q2, Jun 2025 1PR Q6, GCSE Jun 2025 1F, GCSE Comb. Jun 2025 1PF, GCSE Comb. Jun 2022 1PF

Question 5.1 Check it

[Mark scheme >](#)

A tram moves at a steady 8 m/s in a straight line for 20 s.



(a) Sketch the distance–time graph for the tram on graph A.

(1)

(b) Sketch the velocity–time graph for the tram on graph B.

(2)



5 Motion graph shapes

Question 5.1 Check it

[Back to question](#)

Part	Answer	Marks
(a)	straight line from the origin reaching 160 m at 20 s	1
(b)	horizontal straight line	1
(b)	at 8 m/s, from 0 to 20 s	1
Total		3

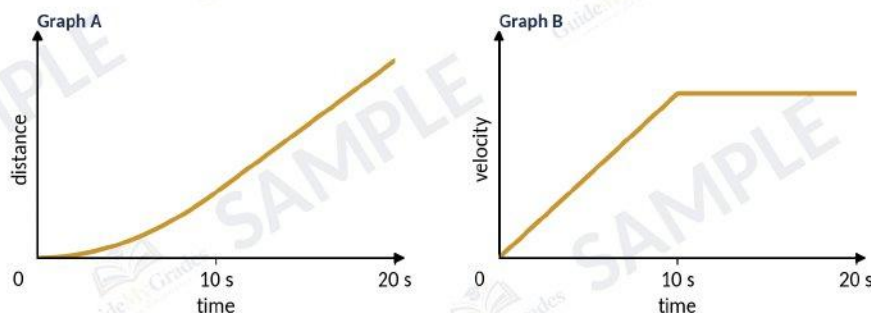
Question 5.2 Apply it

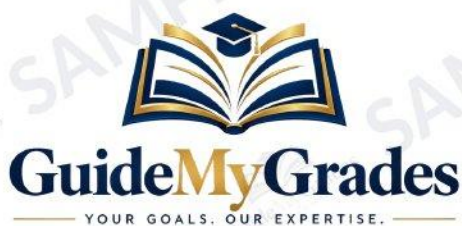
[Back to question](#)

Part	Answer	Marks
(a)	curve from the origin getting steeper for 0–10 s	1
(a)	then a straight line with a constant (non-zero) gradient from 10 s to 20 s	1
(b)	straight line from the origin rising for 0–10 s	1
(b)	then horizontal from 10 s to 20 s	1
Total		4

Common wrong answers: A rising straight line on a velocity–time graph means acceleration, not constant velocity.

Model sketch





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Every topic. Every common mistake. Every mark scheme.

iGCSE & GCSE Physics: Securing Grade 9s

- Topic 1** Forces and Motion
- Topic 2** Electricity
- Topic 3** Waves
- Topic 4** Energy Resources and Energy Transfers
- Topic 5** Solids, Liquids and Gases
- Topic 6** Magnetism and Electromagnetism
- Topic 7** Radioactivity and Particles
- Topic 8** Astrophysics

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