ONTARIO PHYSICS, GRADE 11, UNIVERSITY PREPARATION (SPH3U) · ONTARIO

Ontario Physics, Grade 11, University Preparation (SPH3U) Practice Test

Unit A: Kinematics

10 Questions

Original practice test based on the Ontario curriculum. Work through each question, then check your answers at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

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Question 1

Which quantity is a scalar?

A) Velocity

B) Displacement

C) Distance

D) Acceleration

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Question 2

Which quantity is a vector?

A) Speed

B) Distance

C) Time

D) Velocity

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Question 3

If an object moves 30 metres east and then 40 metres west, its displacement is

A) 10 metres west

B) 70 metres east

C) 70 metres west

D) 10 metres east

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Question 4

If an object moves 30 metres east and then 40 metres west, the total distance travelled is

A) 10 metres

B) 70 metres

C) 50 metres

D) 30 metres

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Question 5

Uniform motion means motion at

A) increasing speed

B) decreasing speed

C) constant velocity

D) changing direction only

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Question 6

A car slowing down has acceleration in the

A) same direction as its velocity

B) perpendicular direction only

C) upward direction only

D) opposite direction to its velocity

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Question 7

The SI unit of acceleration is

A) metres per second squared

B) metres per second

C) metres

D) newtons

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Question 8

The SI unit of velocity is

A) metres per second squared

B) metres per second

C) metres

D) newtons

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Question 9

In a position – time relationship, a steeper slope represents

A) slower motion

B) no motion

C) faster motion

D) acceleration only

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Question 10

A velocity time graph that is a horizontal line above zero represents

A) acceleration

B) rest

C) deceleration

D) constant velocity

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ANSWER KEY

1. C
2. D
3. A
4. B
5. C
6. D
7. A
8. B
9. C
10. D

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