PHYSICS · DELAWARE

Physics
Practice Test

Unit 2: Work, Energy, and Momentum

25 Questions

Original practice test based on the Delaware 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

Using $g = 10$ meters *per* second squared , *the* gravitational potential energy *in* joules *of a* 5 kilogram rock *at a* height *of* 2 meters *is*

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Question 2

A force of 50 newtons pushes an object 5 meters. The work done in joules is

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Question 3

Work of 200 joules is done in 10 seconds. The power in watts is

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Question 4

The momentum in kilogram meters per second of a 5 kilogram mass moving at 10 meters per second is

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Question 5

The kinetic energy in joules of a 4 kilogram mass moving at 4 meters per second is

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Question 6

Using $g = 10$ meters *per* second squared , *the* gravitational potential energy *in* joules *of a* 2 kilogram brick *at a* height *of* 5 meters *is*

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Question 7

A force of 50 newtons pushes an object 3 meters. The work done in joules is

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Question 8

Work of 400 joules is done in 4 seconds. The power in watts is

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Question 9

The momentum in kilogram meters per second of a 4 kilogram mass moving at 5 meters per second is

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Question 10

The kinetic energy in joules of a 2 kilogram ball moving at 4 meters per second is

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Question 11

Using $g = 10$ meters *per* second squared , *the* gravitational potential energy *in* joules *of a* 10 kilogram mass *at a* height *of* 5 meters *is*

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Question 12

A force of 10 newtons pushes an object 3 meters. The work done in joules is

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Question 13

Work of 400 joules is done in 5 seconds. The power in watts is

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Question 14

The momentum in kilogram meters per second of a 5 kilogram bowling ball moving at 4 meters per second is

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Question 15

The kinetic energy in joules of a 4 kilogram mass moving at 3 meters per second is

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Question 16

Using $g = 10$ meters *per* second squared , *the* gravitational potential energy *in* joules *of a* 10 kilogram mass *at a* height *of* 2 meters *is*

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Question 17

A force of 25 newtons pushes an object 4 meters. The work done in joules is

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Question 18

The momentum in kilogram meters per second of a 3 kilogram wagon moving at 4 meters per second is

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Question 19

Using $g = 10$ meters *per* second squared , *the* gravitational potential energy *in* joules *of a* 5 kilogram mass *at a* height *of* 3 meters *is*

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Question 20

Work of 100 joules is done in 10 seconds. The power in watts is

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Question 21

The momentum in kilogram meters per second of a 3 kilogram mass moving at 3 meters per second is

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Question 22

Using $g = 10$ meters *per* second squared , *the* gravitational potential energy *in* joules *of a* 2 kilogram mass *at a* height *of* 3 meters *is*

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Question 23

A force of 50 newtons pushes an object 4 meters. The work done in joules is

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Question 24

The momentum in kilogram meters per second of a 5 kilogram mass moving at 3 meters per second is

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Question 25

A force of 50 newtons pushes a crate 10 meters. The work done in joules is

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ANSWER KEY

1. 100
2. 250
3. 20
4. 50
5. 32
6. 100
7. 150
8. 100
9. 20
10. 16
11. 500
12. 30
13. 80
14. 20
15. 18
16. 200
17. 100
18. 12
19. 150
20. 10
21. 9
22. 60
23. 200
24. 15
25. 500

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