

Mechanics

MCQ Unit

06: Work and Energy

Author: Saylor Foundation

Published 2014

Create, Share, and Discover Online Quizzes.

QuizOver.com is an intuitive and powerful online quiz creator. [learn more](#)

Join QuizOver.com



How to Analyze Stocks

By Yasser Ibrahim

1 month ago
12 Responses

© iStock: Thomson Moter



Pre Employment English

By Katharina jennifer N

5 months ago
19 Responses

© iStock: Albin



Lean Startup Quiz

By Yasser Ibrahim

2 months ago
16 Responses

© iStock: Gekwini Okun

Powered by QuizOver.com

The Leading Online Quiz & Exam Creator

Create, Share and Discover Quizzes & Exams

<http://www.quizover.com>

Disclaimer

All services and content of QuizOver.com are provided under QuizOver.com terms of use on an "as is" basis, without warranty of any kind, either expressed or implied, including, without limitation, warranties that the provided services and content are free of defects, merchantable, fit for a particular purpose or non-infringing.

The entire risk as to the quality and performance of the provided services and content is with you.

In no event shall QuizOver.com be liable for any damages whatsoever arising out of or in connection with the use or performance of the services.

Should any provided services and content prove defective in any respect, you (not the initial developer, author or any other contributor) assume the cost of any necessary servicing, repair or correction.

This disclaimer of warranty constitutes an essential part of these "terms of use".

No use of any services and content of QuizOver.com is authorized hereunder except under this disclaimer.

The detailed and up to date "terms of use" of QuizOver.com can be found under:

<http://www.QuizOver.com/public/termsOfUse.xhtml>

eBook Content License

Introduction to Mechanics. The Saylor Foundation, <http://www.saylor.org/courses/phys101/>

Creative Commons License

Attribution-NonCommercial-NoDerivs 3.0 Unported (CC BY-NC-ND 3.0)

<http://creativecommons.org/licenses/by-nc-nd/3.0/>

You are free to:

Share: copy and redistribute the material in any medium or format

The licensor cannot revoke these freedoms as long as you follow the license terms.

Under the following terms:

Attribution: You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.

NonCommercial: You may not use the material for commercial purposes.

NoDerivatives: If you remix, transform, or build upon the material, you may not distribute the modified material.

No additional restrictions: You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits.

Table of Contents

Quiz Permalink: <http://www.quizover.com/question/unit-06-work-and-energy-by-saylor-foundat-the-introduction-to-sub>

Author Profile: <http://www.quizover.com/user/profile/saylor.foundation>

1. Unit 06: Work and Energy

4. Chapter: Unit 06: Work and Energy

1. Unit 06: Work and Energy Questions

4.1.1. How is the difference between the gravitational potential at a posi...

Author: Saylor Foundation

How is the difference between the gravitational potential at a position one meter above the ground and its potential energy on the ground defined?

Please choose only one answer:

- It is equal to the work done by an applied force to move the object from the ground to one meter above the ground.
- It is equal to the work done by gravity when the object is moved from the ground to one meter above the ground.
- It is equal to the vertical component of the work done by an applied force to move the object from the ground to one meter above the ground.
- It is equal to the vertical component of the work done by gravity when the object is moved from the ground to one meter above the ground.

Check the answer of this question online at QuizOver.com:

Question: [How is the difference between the Saylor Foundat Introduction to](#)

Flashcards:

<http://www.quizover.com/flashcards/how-is-the-difference-between-the-saylor-foundat-introduction-to?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/how-is-the-difference-between-the-saylor-foundat-introduction-to?pdf=3044>

4.1.2. How is the net work done on an object related to the kinetic energy...

Author: Saylor Foundation

How is the net work done on an object related to the kinetic energy of the object?

Please choose only one answer:

- The kinetic energy is equal to the net work.
- The change in kinetic energy is equal to the net work.
- The change in kinetic plus potential energies is equal to the net work.
- There is no specific relationship between net work and kinetic energy.

Check the answer of this question online at QuizOver.com:

Question: [How is the net work done on an object Saylor Foundat Introduction](#)

Flashcards:

<http://www.quizover.com/flashcards/how-is-the-net-work-done-on-an-object-saylor-foundat-introduction?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/how-is-the-net-work-done-on-an-object-saylor-foundat-introduction?pdf=3044>

4.1.3. If a 4 kg object slides down a frictionless incline from a height o...

Author: Saylor Foundation

If a 4 kg object slides down a frictionless incline from a height of 1.5 m above the ground, what will be its speed when it reaches the ground?

Please choose only one answer:

- 29.4 m/s
- 16.2 m/s
- 8.7 m/s
- 5.4 m/s

Check the answer of this question online at QuizOver.com:

Question: [If a 4 kg object slides down a frictionless Saylor Foundat @The Introduction](#)

Flashcards:

<http://www.quizover.com/flashcards/if-a-4-kg-object-slides-down-a-frictionless-saylor-foundat-the-introdu?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/if-a-4-kg-object-slides-down-a-frictionless-saylor-foundat-the-introdu?pdf=3044>

4.1.4. What is the definition of power?

Author: Saylor Foundation

What is the definition of power?

Please choose only one answer:

- Power is the amount of work consumed in a particular process.
- Power is the amount of work done divided by the time required to do the work.
- Power is the product of the work done and the time required to do the work.
- Power is the difference in the potential energy of the system before and after a particular process.

Check the answer of this question online at QuizOver.com:

Question: [What is the definition of power Saylor Foundat Introduction to Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-the-definition-of-power-saylor-foundat-introduction-to-quest?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/what-is-the-definition-of-power-saylor-foundat-introduction-to-quest?pdf=3044>

4.1.5. What is the definition of the work done on an object by a force?

Author: Saylor Foundation

What is the definition of the work done on an object by a force?

Please choose only one answer:

- The change in kinetic energy of the object resulting from the work done
- The force exerted times the resultant displacement
- The force exerted times the distance over which the force is exerted
- The product of component of the force along the line of motion and the distance over which the force is exerted

Check the answer of this question online at QuizOver.com:

Question: [What is the definition of the work done Saylor Foundat Introduction](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-the-definition-of-the-work-done-saylor-foundat-introduction?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/what-is-the-definition-of-the-work-done-saylor-foundat-introduction?pdf=3044>

4.1.6. What is the work-energy theorem?

Author: Saylor Foundation

What is the work-energy theorem?

Please choose only one answer:

- The work done on an object by non-conservative forces is equal to the change in its kinetic energy.
- The work done on an object by a conservative force is equal to the change in its kinetic energy.
- The work done on an object by the applied external force is equal to the change in its kinetic energy.
- The work done on an object by the net force is equal to the change in its kinetic energy.

Check the answer of this question online at QuizOver.com:

Question: [What is the work-energy theorem Saylor Foundat Introduction to Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-the-work-energy-theorem-saylor-foundat-introduction-to-quest?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/what-is-the-work-energy-theorem-saylor-foundat-introduction-to-quest?pdf=3044>

4.1.7. Which of the following is a non-renewable energy source?

Author: Saylor Foundation

Which of the following is a non-renewable energy source?

Please choose only one answer:

- Wind
- Coal
- Geothermal
- Solar

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is a non-renewable Saylor Foundat Introduction](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-is-a-non-renewable-saylor-foundat-introduction?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-is-a-non-renewable-saylor-foundat-introduction?pdf=3044>

4.1.8. Which of the following statements regarding conservative and non-co...

Author: Saylor Foundation

Which of the following statements regarding conservative and non-conservative forces is false?

Please choose only one answer:

- The mechanical energy of the system is conserved if the work is done by conservative forces.
- Energy is not conserved if work is done by non-conservative forces.
- The work done by conservative forces is independent of the path taken.
- Friction is a non-conservative force.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements regarding Saylor Foundat Introduction](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-statements-regarding-saylor-foundat-introductio?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-statements-regarding-saylor-foundat-introductio?pdf=3044>

4.1.9. How is the work done on an object by a force defined?

Author: Saylor Foundation

How is the work done on an object by a force defined?

Please choose only one answer:

- It is a vector physical quantity with a magnitude of force times the distance over which the force is applied.
- It is a vector physical quantity with a magnitude of distance times the component of the force in the direction of the motion.
- It is a scalar physical quantity with a magnitude of force times the distance over which the force is applied.
- It is a scalar physical quantity with a magnitude of distance times the component of the force in the direction of the motion.

Check the answer of this question online at QuizOver.com:

Question: [How is the work done on an object by a Saylor Foundat Introduction](#)

Flashcards:

<http://www.quizover.com/flashcards/how-is-the-work-done-on-an-object-by-a-saylor-foundat-introduction?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/how-is-the-work-done-on-an-object-by-a-saylor-foundat-introduction?pdf=3044>