

Physical Science - Chapter 14 Review Sheet

- When does a force applied to an object not do any work? **When there is no displacement**
- What is the unit of work? **Joule**
- If you exert a force of 10.0 N to lift a box a distance of 0.75 m, how much work do you do? **7.5 J**
- If you perform 30 joules of work lifting a 20-N box from the floor to a shelf, how high is the shelf? **1.5 m**
- The SI unit of power is the _____, **Watt**
- If you exert a force of 500 N to walk 4 m up a flight of stairs in 4 s, how much power do you use? **500 W**
- A machine is a device that can multiply _____, **Force**
- When a machine does work, it can do all of the following EXCEPT
 - change the direction of a force.
 - increase a force and change the distance a force moves.
 - increase the distance a force moves and change the direction of a force.
 - increase a force and increase the distance a force moves.**
- If you know the input distance and output distance of a machine, which of the following can you calculate? **IMA**
- If you have to apply 30 N of force on a crowbar to lift an rock that weights 300 N, what is the actual mechanical advantage of the crowbar? **11**
- The efficiency of a machine is always less than 100 percent because _____ of friction
- A motor with an efficiency rating of 80 percent must supply 300 J of useful work. What amount of work must be supplied to the motor? **375 J**
- Which of the following is an example of a wheel and axle?

a. a doorknob	c. a jar lid
b. an automobile steering wheel	d. a pencil
- The rate at which work is done is called _____, **power**
- The force that is exerted on a machine is called the _____ force. **Output force**
- Besides a reduction in friction, the only way to increase the amount of work output of a machine is to _____ the work input. **increase**
- The fulcrum is always between the effort force and the resistance force in a(an) _____-class lever. **first**
- The bottle opener shown in the figure is a(an) _____-class lever. **2nd**
- Compare the size and direction of the input and output forces shown in the figure to the right. **Same direction, output force is greater**
- The ideal mechanical advantage of a third-class lever is always _____ than 1. **less**
- If you grease a ramp to make a box slide more easily, what happens to the ramp's mechanical advantage? **increases**
- If a simple machine could be frictionless, how would its IMA and AMA compare? **equal**
- How does friction affect the calculation of the IMA of a simple machine? **it doesn't**
- The input force of a pulley system must move 6.0 m to lift a 3000-N engine a distance of 0.50 m. What is the IMA of the system? **12**
- A force of 12 N is applied to the handle of a screwdriver being used to pry off the lid of a paint can. As the force moves through a distance 0.3 m, the screwdriver does 32 J of work on the lid. What is the efficiency of the screwdriver? **BAD QUESTION**
- What is the IMA of the ramp in the figure at the right? **3**



Work And Machines Chapter Test Answers

Sabine Zange

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Table of Contents Work And Machines Chapter Test Answers

1. Understanding the eBook Work And Machines Chapter Test Answers
 - The Rise of Digital Reading Work And Machines Chapter Test Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Work And Machines Chapter Test Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Work And Machines Chapter Test Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Work And Machines Chapter Test Answers
 - Personalized Recommendations

- Work And Machines Chapter Test Answers User Reviews and Ratings
- Work And Machines Chapter Test Answers and Bestseller Lists
- 5. Accessing Work And Machines Chapter Test Answers Free and Paid eBooks
 - Work And Machines Chapter Test Answers Public Domain eBooks
 - Work And Machines Chapter Test Answers eBook Subscription Services
 - Work And Machines Chapter Test Answers Budget-Friendly Options
- 6. Navigating Work And Machines Chapter Test Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Work And Machines Chapter Test Answers Compatibility with Devices
 - Work And Machines Chapter Test Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Work And Machines Chapter Test Answers
 - Highlighting and Note-Taking Work And Machines Chapter Test Answers
 - Interactive Elements Work And Machines Chapter Test Answers
- 8. Staying Engaged with Work And Machines Chapter Test Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Work And Machines Chapter Test Answers
- 9. Balancing eBooks and Physical Books Work And Machines Chapter Test Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Work And Machines Chapter Test Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Work And Machines Chapter Test Answers
 - Setting Reading Goals Work And Machines Chapter Test Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Work And Machines Chapter Test Answers
 - Fact-Checking eBook Content of Work And Machines Chapter Test Answers

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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