Physical Science - Chapter 14 Review Sheet

- 1. When does a force applied to an object not do any work? When there is no displacement
- 2. 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.
- 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
- 5. 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
- 7. A machine is a device that can multiply . Force
- 8. When a machine does work, it can do all of the following EXCEPT
 - a. 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.
 - d. increase a force and increase the distance a force moves.
- 9. If you know the input distance and output distance of a machine, which of the following can you calculate? ****
- If you have to apply 30 N of force on a crowbar to lift an rock that weights 330 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
- 13. Which of the following is an example of a wheel and axie?
 - a. a doorknob
 - an automobile steering wheel

- c. a jar lid
 d. a pencil
- 14. The rate at which work is done is called _______power
- 15. The force that is exerted on a machine is called the force. Output force
- The fulcrum is always between the effort force and the resistance force in a(an) -class lever. -class lever.
- 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
- 22. If a simple machine could be frictionless, how would its IMA and AMA compare? equal
- 23. 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?
- 25. 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
- 26. What is the IMA of the ramp in the figure at the right? 3





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Richard G. Smith

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Table of Contents Physical Science Chapter Review Answers

- 1. Understanding the eBook Physical Science Chapter Review Answers
 - The Rise of Digital Reading Physical Science Chapter Review Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Chapter Review 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 Physical Science Chapter Review Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Chapter Review Answers
 - Personalized Recommendations
 - Physical Science Chapter Review Answers User Reviews and Ratings
 - Physical Science Chapter Review Answers and Bestseller Lists
- 5. Accessing Physical Science Chapter Review Answers Free and Paid eBooks

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