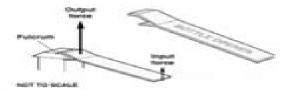
#### Physical Science - Chapter 14 Review Sheet

- 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
- 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
- The force that is exerted on a machine is called the force. Output force.
- 17. The fulcrum is always between the effort force and the resistance force in a(an) -class lever. 5781
- 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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**David Kirk** 

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# **Table of Contents Physical Science Chapter Test Answers**

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

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

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