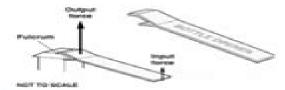
#### Physical Science - Chapter 14 Review Sheet

- 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. 5755
- 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





# **Physical Science Chapter 4 Section 2 Review Answer Key**

**Physical Science Study Committee** 

**Physical Science Chapter 4 Section 2 Review Answer Key:** 

Whispering the Techniques of Language: An Psychological Quest through **Physical Science Chapter 4 Section 2 Review Answer Key** 

In a digitally-driven world wherever monitors reign supreme and quick connection drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within phrases usually get unheard. However, nestled within the pages of **Physical Science Chapter 4 Section 2 Review Answer Key** a captivating fictional value pulsing with natural feelings, lies a fantastic journey waiting to be undertaken. Composed by a talented wordsmith, that marvelous opus invites visitors on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the very material of each and every word. Within the mental depths of this emotional review, we shall embark upon a sincere exploration of the book is core subjects, dissect its fascinating publishing design, and fail to the powerful resonance it evokes strong within the recesses of readers hearts.

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