#### 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 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
- 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.
  - b. 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? MA
- 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?
- 13. Which of the following is an example of a wheel and axle?
  - a. a doorknob
  - an automobile steering wheel

- a jar lid
   d. a pencil
- 14. The rate at which work is done is called \_\_\_\_\_\_\_\_
- 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. first
- 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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**Scott A. Ostrow** 

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