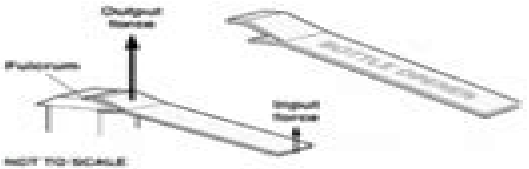
Physical Science - Chapter 14 Review Sheet

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
3. 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
4. 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
6. 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.
   b. increase a force and change the distance a force moves.
   c. 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? IMA
10. 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
11. The efficiency of a machine is always less than 100 percent because _____. of friction
12. 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 axle?
    a. a doorknob
    b. 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
16. Besides a reduction in friction, the only way to increase the amount of work output of a machine is to _____ the work input. increase
17. The fulcrum is always between the effort force and the resistance force in a(an) _____-class lever. first
18. The bottle opener shown in the figure is a(an) _____-class lever. 2nd
19. Compare the size and direction of the input and output forces shown in the figure to the right. Same direction, output force is greater
20. The ideal mechanical advantage of a third-class lever is always _____ than 1. less
21. 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
24. 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
25. A force of 1.2 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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Albert A Gayle

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