

Chapter 7 Review

1. What is the formula for work?
2. What is the unit that work is measured in? (give 2 ways)
3. What must be true of force and motion for work to be done?
4. What is a machine?
5. What do machines do?

6. What is another name for input force? output force?
7. What is mechanical advantage?
8. What is the formula for mechanical advantage?
9. What are the three ways a machine makes a task easier?

10. How does the mechanical advantage of each of these (#9) compare to 1?

11. What is efficiency?
12. What is the efficiency of an ideal machine?
13. If a machine has an efficiency of 80%, how much of your effort is wasted?
14. What is the formula for efficiency?
15. What is actual mechanical advantage?

16. What is ideal mechanical advantage?

17. What are the 6 simple machines? Give a description of each.

18. What is a fulcrum?

19. What are the three types of levers? Give a description and example of each.

20. How do you find the ideal mechanical advantage of an inclined plane?

21. How do you find the ideal mechanical advantage of a lever?

22. How do you find the ideal mechanical advantage of a wheel and axle?

23. How do you find the ideal mechanical advantage of a pulley?

24. What is a compound machine?

25. What are gears?

26. What are the two simple machines your body contains?