

Simple Machines (Chapter 5 pgs. 144-150)

1. What is work?
2. For work to be done, what two things must occur?
3. What is the equation for calculating work?
4. If the force=50 N and the distance is 10 m, how much work is done?
5. If the force=20 N and the distance is 2 m, how much work is done?
6. What is a simple machine?
7. What is an example of a simple machine?
8. What is a compound machine?
9. What is an example of a compound machine?
10. What is mechanical advantage?
11. What are the six simple machines?

12. Explain the input force and the output force of a can opener.

13. What can a simple machine do with a small input force?

14. What is the difference between ideal and real machines?

15. How does a pulley work?

16. What is a lever?

17. What is an example of a lever?

18. What is a wheel and axle?

19. What is an example of a wheel and axle?

20. What is an inclined plane?

21. How does an inclined plane help you move a heavy object?

22. What is a wedge?

23. What is an example of a wedge?

24. Explain how a mountain road is like a screw.