Work Mr. Stewart

Physical Science November, 2012

1. What is work?
2. What is the formula for work? What is the unit of work?
3. How much work is done if a man pushes a concrete block 10 meters with a force of 20 N?
4. What is power? What is the unit of power?
5. Does Ben or Bonnie do more work? Which student delivers more power? Why?
6. How much power is needed to move 10 kg of mass at an acceleration of 2 meters/second/second a distance of 10 meters in 5 seconds?
7. Before engines and motors, how did people move objects?
8. What did people invent to help them do work?
9. What are 6 simple machines?

A

B

C

D

E

F

1. What is a machine?
2. How does a machine gain mechanical advantage?
3. What is mechanical advantage?
4. No machine can \_\_\_ \_\_\_ \_\_\_ \_\_\_\_ \_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_ \_\_\_.
5. What is a lever?
6. How many classes of levers are there?
7. What are the different classes of levers?
8. Where is the fulcrum located in a 1st class lever?
9. What are some examples of a 2nd class lever?
10. Where is the effort force applied in a 3rd class lever?
11. What is a wheel and axle made of?
12. What is the difference between a fixed and a movable pulley?
13. What is an inclined plane?
14. What is the mechanical advantage of an inclined plane equal to?
15. Which requires the most force – a 30o 45o or 60o ramp?
16. How does a modern highway use inclined planes?
17. What is a wedge?
18. What is a screw?
19. What is efficiency?