

## Work and power

### Worksheet 4

Adapted from: <http://ed.ted.com/lessons/how-does-work-work-peter-bohacek>

#### GAP FILLING LISTENING EXERCISE

1. In physics the .....of work and power help us understand and explain lots of things in our universe.
2. Positive work is the energy we put into the .....
3. Think of positive work as money being .....to your bank account.
4. Work and energy are ..... in Joules. .
5. We transfer energy into the clock, we turn the crank to raise the heavy metal ..... inside the clock
6. That energy is stored as ..... potential energy.
7. To raise the metal cylinders, we need to apply .....equal to their weight.
8. The cylinders weigh 300Newtons which is pretty .....
9. Power is the ..... at which energy is transferred
10. In the metric system power is measured in Joules per .....or Watts
11. James Watt came up with the concept of ..... to measure the amount of power produced by a typical work horse.
12. Let's ..... the amount of power it takes to run this grandfather clock to the power we'd need to run a bright 100 Watt light bulb.
13. Before we ..... the clock run, the energy is stored as gravitational potential energy of the cylinders.
14. If we let the clock run, the cylinders slowly move ..... and the energy is leaving the clock.
15. How ..... power does the clock use?
16. You can run a clock in every house in a .....sized city with that much power.