



Energy - quick fire questions

This worksheet is fully supported by a video tutorial <https://youtu.be/q5CwATii6OA>

1. What are the different types of energy?
2. What energy changes happen in a lightbulb?
3. What energy changes happen in TV?
4. What does the word system mean?
5. What is the law of conservation of energy?
6. What is the equation linking kinetic energy, mass and velocity?
7. What are the units for velocity?
8. What are the units for mass?
9. What are the units for kinetic energy?
10. What is elastic potential energy?
11. What is equation linking elastic potential energy, the spring constant and extension?
12. What are units for elastic potential energy?
13. What are the units for the spring constant?
14. What are the units for extension?
15. What is gravitational potential energy?
16. What is the equation linking gravitational potential energy, mass, gravity and height?
17. What are the units for gravitational potential energy?
18. What is the value and the units for gravity?
19. What are the units for height?
20. What does this symbol mean Δ ?
21. What is specific heat capacity?
22. What is the equation linking changing energy, mass, specific heat capacity and change in temperature?
23. What are the units for energy?
24. What are the units for specific heat capacity?
25. What are the units for change in temperature?
26. What is the equation linking power, energy and time?
27. What are the units of power?
28. What are the units for time?
29. What is the equation linking power, work done and time?
30. What are the units for work done?
31. What happens to waste energy?
32. How can we reduce wasting energy?
33. Give three examples of insulation that can be used in the house.



34. Why is a system not 100% efficient?
35. What is the equation for working out efficiency?
36. What are the units for efficiency?
37. What different ways we can get energy?
38. What is a renewable resource?
39. What is finite resource?