

OBHS Core Questions:

Subject: Science

Year and Term: Year 7 Autumn Term

Topic: 7P1 Energy Costs and Transfers



Learn these questions to build a strong foundation of knowledge for this half-term. Ask family or friends to test you regularly, or practise on your own using the 'Look, Say, Cover, Write' method.

Core Question	Answer
1. Name three fossil fuels.	Coal, oil, gas
2. What is the unit of energy?	Joules (J)
3. Which energy store increases when a rubber band is stretched?	Elastic potential energy
4. Energy in batteries is in which store?	Chemical energy
5. Moving objects contain energy in which store?	Kinetic energy
6. Which energy store is increased when you lift an object up off the ground?	Gravitational potential energy
7. Food contains a lot of energy in this store.	Chemical energy
8. How many joules are there in a kilojoule?	1000
9. Give three examples of renewable energy sources.	Wind, solar, geothermal, biomass, hydroelectric, wave
10. What is a renewable energy source?	One that will not run out and can be replaced
11. What is a non-renewable energy source?	One that will run out one day and cannot be replaced?
12. Which fuels are examples of non-renewable energy sources.	Fossil fuels
13. Give an advantage and a disadvantage of solar power.	Solar power is renewable, panels can be put on houses, also they do not release carbon dioxide into the atmosphere. However, they can be expensive and don't work when it is cloudy.
14. Give an advantage and a disadvantage of using wind turbines	Wind turbines are renewable sources of energy; however, they can be ugly to look at, expensive to initially put up and noisy. They also don't work if it is not a windy day.
15. Give a disadvantage of burning fossil fuels.	Releases carbon dioxide into the atmosphere which contributes to global warming,
16. When energy spreads out wastefully, what is it called?	Dissipated energy
17. An electric fan wastes energy, what kind of store will the wasted energy be in?	Thermal energy
18. Which energy store is in hot objects.	Thermal energy
19. What is power?	How quickly energy is transferred to a device
20. What is the unit for power?	Watts (W)

21. How many Watts in 7kW?	7000
22. How many kW in 3500W	3.5kW
23. How many kW in 1650W	1.65kW
24. Energy cannot be _____ or destroyed.	Created
25. Is Francesca correct: When a hairdryer is turned on, hot energy floats away after it touches the hair.	No Francesca is not correct. There is no such thing as “hot energy”, thermal energy would be more correct. In addition, energy does not “float away” it dissipates.