

P1 Topic 1 Energy and Efficiency

1. Energy cannot be _____ or _____	Created or destroyed
2. State 3 'things' that can happen to energy	Transferred Stored Dissipated (spread out)
3. What happens to energy which is not usefully transferred?	Wasted
4. Where does the wasted energy go?	Surroundings/ atmosphere/ air
5. What happens to the surroundings?	Get warmer
6. Why does the wasted energy become less useful?	It gets more spread out
7. If a device doesn't waste much energy, we say it is very	Efficient
8. State the useful and wasted energy from a light bulb	Useful: light Wasted: heat
9. State the useful and wasted energy from a TV	Useful: light, sound Wasted: heat
10.State the useful and wasted energy from a radio	Useful: sound (maybe light) Wasted: heat
11.State the useful and wasted energy from a drill	Useful: kinetic, (maybe light) Wasted: heat, sound
12.State the useful and wasted energy from a washing machine	Useful: kinetic, heat, light Wasted: sound, some heat
13.State the useful and wasted energy from a kettle	Useful: heat (light) Wasted: sound, some heat
14.What 2 factors determine how much energy an appliance transfers?	How long it is switched on Its power
15.What are the units for power?	W or kW
16.What is kWh the abbreviation for?	Kilowatt hour
17.How do you calculate the cost of electricity?	Number of kilowatt hours (kWh) x cost per unit