

## Energy change labels and Sankey diagrams

The labels on the right should be cut out and displayed alongside the relevant device.

The Sankey diagrams could be cut out and a set given to each student group, for them to match up with the correct devices.



**Light bulb**  
 Input energy 10 J  
 Useful output energy 1 J  
 Wasted output energy 9 J



**Bunsen burner**  
 Input energy 10 J  
 Useful output energy 8 J  
 Wasted output energy 2 J



**Hairdryer**  
 Input energy 10 J  
 Useful output energy 5 J  
 Wasted output energy 5 J



**Toy**  
 Input energy 10 J  
 Useful output energy 5 J  
 Wasted output energy 5 J



**Candle**  
 Input energy 10 J  
 Useful output energy 2 J  
 Wasted output energy 8 J



**Radio**  
 Input energy 10 J  
 Useful output energy 7 J  
 Wasted output energy 3 J



**Mobile phone charger**  
 Input energy 10 J  
 Useful output energy 2 J  
 Wasted output energy 8 J



**Kettle**  
 Input energy 10 J  
 Useful output energy 9 J  
 Wasted output energy 1 J



**Electric motor**  
 Input energy 10 J  
 Useful output energy 3 J  
 Wasted output energy 7 J



**Energy efficient bulb**  
 Input energy 10 J  
 Useful output energy 4 J  
 Wasted output energy 6 J



**Computer**  
 Input energy 10 J  
 Useful output energy 6 J  
 Wasted output energy 4 J



**Calculator**  
 Input energy 10 J  
 Useful output energy 7 J  
 Wasted output energy 3 J