

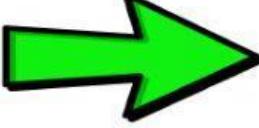
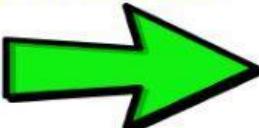
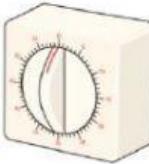
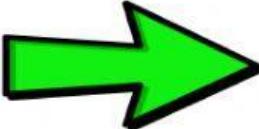
6.4.2 Energy Transfer

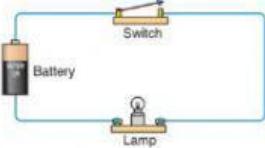
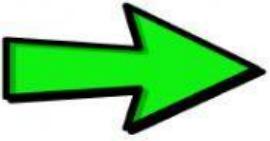
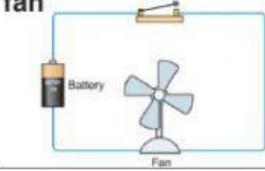
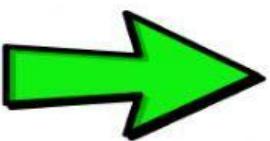
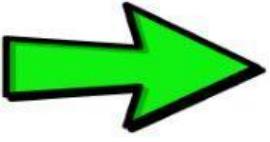
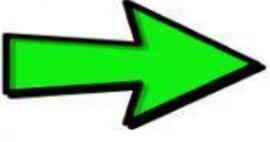
LOs: I can describe the energy transformation taking place in simple situations;
LO: I know that energy is always spread out, diluted or dissipated so as to become less useful;
LO: I know the law of Conservation of Energy.

Law of Conservation of Energy:

Energy cannot be **lost** or **wasted**; it can only be **transferred** from one system to another.

Energy Transfer Chains

Diagram	Energy Store (start)	Transfer Pathway	Energy Store (end)
1. Rubbing hands	Kinetic	Mechanical	Thermal
			
2. Shaking a tin of screws		Mechanical	Sound (thermal)
			
3. Striking a match		Mechanical	
			
4. Battery and Bell			
			
5. Clockwork timer			
			

<p>6. Cell and lamp</p> 		
<p>7. Cell, motor and fan</p> 		
<p>10. Hairdryer Switch on the hairdryer.</p> 		
<p>11. Loudspeaker Switch on the loudspeaker and then switch it off.</p> 		
<p>12. Dropping masses Lift the mass above the sand and drop it.</p> 		