

ENERGY CONVERSION-SET-4

1	<p>Which method of drying clothes has the least impact on the environment?</p> <p>A Evaporate the water in them in an electrically heated tumble dryer.</p> <p>B Hang them on a washing line in direct sunlight.</p> <p>C Remove the water from them in an electric spin dryer.</p> <p>D Suspend them close to a coal fire.</p>
MS-1	B
2	<p>Which source of energy uses the production of steam to generate electricity?</p> <p>A hydroelectric</p> <p>B nuclear</p> <p>C tides</p> <p>D waves</p>
MS-2	B
3	<p>Electrical energy may be obtained from nuclear fission.</p> <p>In what order is the energy transferred in this process?</p> <p>A nuclear fuel → generator → reactor and boiler → turbines</p> <p>B nuclear fuel → generator → turbines → reactor and boiler</p> <p>C nuclear fuel → reactor and boiler → generator → turbines</p> <p>D nuclear fuel → reactor and boiler → turbines → generator</p>
MS-3	D

4	<p>Which of these is designed to change electrical energy into kinetic energy?</p> <p>A a capacitor</p> <p>B a generator</p> <p>C a motor</p> <p>D a transformer</p>
MS-4	C
5	<p>An aeroplane is landing. As it descends towards the runway, its speed reduces.</p> <p>What are the energy changes that take place during the descent?</p> <p>A kinetic + gravitational → thermal (heat)</p> <p>B kinetic → gravitational + thermal (heat)</p> <p>C kinetic + thermal (heat) → gravitational</p> <p>D thermal (heat) → kinetic + gravitational</p>
MS-5	A
6	<p>Energy from uranium is transferred to electrical energy in a nuclear power station.</p> <p>What is the correct order of the stages of this process?</p> <p>A boiler → generator → reactor → turbine</p> <p>B generator → boiler → turbine → reactor</p> <p>C reactor → boiler → turbine → generator</p> <p>D reactor → turbine → boiler → generator</p>
MS-6	C

7	<p>When a bicycle lamp is switched on, what is the useful energy change within the battery?</p> <p>A chemical energy to electrical energy</p> <p>B electrical energy to chemical energy</p> <p>C electrical energy to light energy</p> <p>D light energy to chemical energy</p>
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MS-7	A
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8	<p>A pendulum bob swings along the path WXYZ and back again.</p> <p>Resistive forces can be ignored.</p> <div> </div> <p>Which statement describes the total energy of the bob?</p> <p>A It has a maximum value at X.</p> <p>B It has a maximum value at Y.</p> <p>C It has a maximum value at Z.</p> <p>D It has the same value at W, X, Y and Z.</p>
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MS-8	D
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9	<p>Which device is designed to convert chemical energy into kinetic energy?</p> <p>A an a.c. generator</p> <p>B a battery-powered torch</p> <p>C a car engine</p> <p>D a wind-up mechanical clock</p>
MS-9	C
10	<p>Brakes are used to slow down a moving car.</p> <p>Into which form of energy is most of the kinetic energy converted as the car slows down?</p> <p>A chemical</p> <p>B elastic</p> <p>C thermal</p> <p>D sound</p>
MS-10	C