

Lesson	Know	Apply	Extend
3.2.1 Energy adds up	I can state the definition of the conservation of energy. <input type="checkbox"/>	I can describe energy stores before and after a change, including stores relating to an object's speed, temperature, height or shape. <input type="checkbox"/>	I can apply ideas about stores and transfers to a range of unfamiliar situations. <input type="checkbox"/>
	I can state how energy is transferred. <input type="checkbox"/>	I can explain what brings about transfers in energy between stores. <input type="checkbox"/>	I can compare energy transfers to energy conservation. <input type="checkbox"/>
	I can present simple observations of many transfers. <input type="checkbox"/>	I can present observations of energy transfers in a table. <input type="checkbox"/>	I can present detailed observations of energy transfers in a table, explaining changes to the physical system, and how that relates to the ways in which energy is stored. <input type="checkbox"/>
3.2.2 Energy dissipation	I can state what dissipation means. <input type="checkbox"/>	I can explain how energy is dissipated in a range of situations. <input type="checkbox"/>	I can account for all energy transfers in a range of situations. <input type="checkbox"/>
	I can do simple calculations of wasted energy from input and useful energies. <input type="checkbox"/>	I can calculate useful energy and wasted energy from input and output energies. <input type="checkbox"/>	I can calculate a useful and wasted energy, and efficiency. <input type="checkbox"/>
	I can state what lubrication and streamlining mean. <input type="checkbox"/>	I can describe how dissipated energy can be reduced. <input type="checkbox"/>	I can evaluate methods of reducing energy dissipation. <input type="checkbox"/>