

PHYSICS

Learning objectives I can:	I can do this very well	I can do this quite well	I need to do more work on this
6.1 Demonstrate an understanding that energy is conserved			
6.2 Describe energy transfer chains involving the following forms of energy: thermal (heat), light, electrical, sound, kinetic (movement), chemical, nuclear and potential (elastic and gravitational)			
6.3 Demonstrate an understanding of how diagrams can be used to represent energy transfers			
HSW 11 Present information, develop an argument and draw a conclusion, using scientific, technical and mathematical language, and ICT tools			
6.4 Apply the idea that efficiency is the proportion of energy transferred to useful forms to everyday situations			
6.5 Use the efficiency equation: $\text{efficiency} = \frac{\text{useful energy transferred by the device}}{\text{total energy supplied to the device}} \times 100\%$			
HSW 5 Plan to test a scientific idea, answer a scientific question, or solve a scientific problem by selecting appropriate data to test a hypothesis			
6.7 <i>Investigate how the nature of a surface affects the amount of thermal energy radiated or absorbed</i>			
6.6 Demonstrate an understanding that for a system at a constant temperature it needs to radiate the same average power that it absorbs			
HSW 3 Describe how phenomena are explained using scientific models			