

GCSE Checklist – Energy Transfers

By the end of this topic (most of Topic 1a in the AQA GCSE Physics textbook, pages 22-46), you should be able to do the following things:

	<u>Page(s)</u>
Name all eight energy stores and give examples for each	22
Define the term ' closed system '	22
Describe the four methods of energy transfer	23
Give examples of energy transfers	23, 24
Define the term ' work done '	23
State the principle of conservation of energy	24
Describe how energy can be ' wasted ' or ' dissipated '	24, 25, 41
State, rearrange and use the equation for kinetic energy	26
State, rearrange and use the equation for gravitational potential energy	27
Describe the energy transfers when an object falls or is thrown in the air	28
Calculate the maximum height of a thrown object, or maximum speed of a falling object	29
Rearrange and use the equation for elastic potential energy	28
Define the term ' power '	33
State, rearrange and use two equations for power	33
Describe all of the ways in which we can reduce unwanted energy transfers, such as lubrication or thermal insulation	37-39
Define the term ' efficiency '	40
State, rearrange and use the equation for 'efficiency'	40
Discuss methods of improving efficiency	41
State the units related to all quantities used in the topic	22-46

Key Vocabulary

energy	transfer	store	conservation	efficiency
dissipate	lubrication	insulation	thermal	potential
gravitational	elastic	kinetic	work done	power
	closed system		friction	