

## 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 <b>energy stores</b> and give examples for each	22
Define the term ' <b>closed system</b> '	22
Describe the four methods of <b>energy transfer</b>	23
Give <b>examples</b> of energy transfers	23, 24
Define the term ' <b>work done</b> '	23
State the principle of <b>conservation of energy</b>	24
Describe how energy can be ' <b>wasted</b> ' or ' <b>dissipated</b> '	24, 25, 41
State, rearrange and use the equation for <b>kinetic energy</b>	26
State, rearrange and use the equation for <b>gravitational potential energy</b>	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 <b>elastic potential energy</b>	28
Define the term ' <b>power</b> '	33
State, rearrange and use two <b>equations</b> for power	33
Describe all of the ways in which we can <b>reduce unwanted</b> energy transfers, such as lubrication or thermal insulation	37-39
Define the term ' <b>efficiency</b> '	40
State, rearrange and use the <b>equation</b> for ' <b>efficiency</b> '	40
Discuss methods of <b>improving efficiency</b>	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