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Energy 1. Energy costs							
CONCEPT 2 TEST YOURSELF							
ENERGY USE IN THE HOME							
KNOW							
Q1	Wha	What is power ?					
Q2	A 2000 W kettle is switched on to heat water. How many joules of energy will it provided in						
	(a)	1 second	(b)	15 seconds	(c)	1 minute	
Q3	Which of the following appliances will deliver more energy each second?						
	Laptop – 20 W Toaster – 1.2 kW Microwave – 800 W						
APPLY							
Q4	A TV uses 72 000 joules in 10 minutes. What is its power?						
Q5	A 2 kW kettle is on for 3 minutes. How much energy does is transfer?						
Q6	A 5 W phone charger is transfers 54 000 joules of energy to the battery of the phone. How long did it take to do this?						
	(a)	in seconds	(b)	in hours			
A unit of electricity is the same as a kilowatt-hour (kWh)							
Q7	 (a) How many kWh of electricity would be used if a 1.5 kW washing machine is on for 2 hours? (b) If it costs 5p per unit then how much would it cost? 						
Q8	(a) (b)						
Q9	If a fridge uses 2.4 kWh of energy in one day what is its power in kW?						

KINGS AQA SCIENCE KS3 3.1 ENERGY - ENERGY COSTS - C2 Q