Practice Question Set For GCSE

Subject: Physics



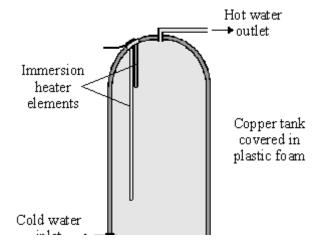
Paper-1 Topic: GCSE Triple Science_Particle Model Of Matter (High Demand Questions)

he table gives information a	about some methods of c	conserving energy in a hous	e.
Conservation method	Installation cost in £	Annual saving on energy bills in £	
Cavity wall insulation	500	60	
Hot water tank jacket	10	15	
oft insulation	110	60	
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Thermostatic radiator valve) Explain which of the m	ethods in the table is the	most cost effective way of support your answer with c	
Thermostatic radiator valve Explain which of the m	ethods in the table is the	20 most cost effective way of	
hermostatic radiator valve Explain which of the ma 10 year period. To ol	ethods in the table is the	most cost effective way of support your answer with c	

Q2.

The diagram shows a type of electric immersion heater in a hot water tank. These hot water tanks are normally found in airing cupboards.

(Total 5 marks)



Information on the immersion heater states:

(a)

230 V 10 A

(i)	Explain why the hot water outlet is at the top of the tank, and the cold water inlebottom of the tank.	t is at the
(ii)	Explain how the <i>sink</i> position for the immersion heater is able to save energy.	
The	copper tank is surrounded by plastic foam to minimise energy loss.	
Expl	ain why a pale, shiny surface to the foam also helps to minimise energy loss.	

Immersion heaters for hot water tanks often have a switch on them labelled *bath* or *sink*. The *bath* position of the switch has **both** parts of the immersion heater elements in the circuit. The

(2)

(Total 6 marks)