

AQA Chapter 2 Checklist 2017 (Triple)

Can you...?	😊	😐	☹
Chapter 2: Energy transfer by heating.			
Write down which materials make the best conductors.			
Write down which materials make the best insulators.			
Describe how the thermal conductivity of a material affects the rate of energy transfer through it by conduction.			
Describe how the thickness of a layer of material affects the rate of energy transfer through it by conduction.			
Describe what the specific heat capacity of a substance means.			
Calculate the energy needed to change the temperature of an object.			
Describe how the mass of a substance affects how quickly its temperature changes when you heat it.			
Describe how to measure the specific heat capacity of a substance.			
Describe how homes are heated.			
Describe how you can reduce the rate of energy transfer from your home.			
Describe what cavity wall insulation is.			
Chapter 2: Equations I need to know.			
None!			
Chapter 2: Equations I am given and need to use.			
$\begin{array}{cccc} \text{change in thermal} & = & \text{mass } (m) \times & \text{specific heat capacity } (c) \times \text{temperature } (\Delta\theta) \\ \text{energy } (\Delta E) & & & \\ \text{(J)} & & \text{(kg)} & \text{(J/kg}^\circ\text{C)} & \text{(}^\circ\text{C)} \end{array}$			
Chapter 2: Key words I need to know			
Absorb: <i>to soak up or take in – for waves, it is when the wave disappears as the energy it is carried is transferred to a material.</i>			
Black body radiation: <i>the radiation emitted by a perfect black body (a body that absorbs all the radiation that hits it).</i>			
Conduction: <i>the way energy is transferred through solids by heating. Vibrations are passed on from particle to particle.</i>			
Convection: <i>circulation of a liquid or gas (fluid) caused by increasing its thermal energy.</i>			
Emit: <i>to give out.</i>			
Fluid: <i>liquid or a gas.</i>			
Infrared Radiation: <i>electromagnetic waves between visible light and microwaves in the electromagnetic spectrum.</i>			
Specific heat capacity: <i>energy needed to raise the temperature of 1kg of a</i>			

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<i>substance by 1°C.</i>			
Thermal conductivity: <i>property of a material that determines the energy transfer through it by conduction.</i>			
Thermal Conductor: <i>a material that allows energy to be transferred through it easily by heating.</i>			
Thermal Insulator: <i>a material that does not allow energy to be transferred through it easily by heating.</i>			