P1 Fact Sheet – Heat Transfers Name.....

Question	Answer
What do particles of solids, liquids	
and gases have different amounts of?	energy
Draw the particles in 1. a solid 2. a liquid 3. a gas	Solid
	Liquid
	Gas
When a liquid turns into a gas it is called	evaporation
When a gas turns into a liquid it is called	condensation
Transfer of heat is caused by this type of wave	Infra-red radiation
The two types of heat transfer which	i) conduction
involve particles are	ii) convection
The method of heat transfer in solids	conduction
is	
The method of heat transfer in	convection
liquids and gases is	
All objects absorb and emit (give out) this	infra-red radiation

Question	Answer
The rate at which an object transfers	 surface area
energy by heating depends on	• volume
	 the material it is made from
	 the surfaces the object is in
	contact with
	• The difference in temperature of
	the object and the surroundings
The best absorbers of infra-red	Dark and matt
radiation are	
The best emitters of infra-red	Dark and matt
radiation are	
The best reflectors of infrared	light and chiny
radiation are	light and shiny
The amount of energy required to	specific heat capacity
change the temperature of 1kg of a	
substance by 1°C is called its	
A substance which prevents heat loss	insulator
is an	
Insulators are poor	conductors of heat
Insulation works by preventing or	i) conduction ii) convection
slowing down heat transfer by	and iii) radiation
This is a measure of how effective a	U value
material is as an insulator is its	
If a material is a better insulator, this	higher / lower
value is	
What are the three types of heat	i) conduction ii) convection
transfer?	and iii) radiation
Which type of heat transfer doesn't need particles?	radiation
How does energy reach us from the	radiation
sun?	
Good conductor	metal
Good insulator	plastic