

Chapter 17 –Heat Energy

Learning Grid

Heat Energy	Questions	Answers
	Define heat.	
	What happens to particles as a substance is heated?	
	What is heat capacity? State its equation and unit.	
	What is specific heat capacity? State its equation and unit.	
	Why are copper pans used for cooking?	
	Why does cheese on pizza burn your mouth more than the crust?	
	What is latent heat?	

Heat Energy	Questions	Answers
	What is specific latent heat? State its equation and unit.	
	What is the difference between latent heat of fusion and latent heat of vaporisation?	
	Why does steam cause worse burns than boiling water?	
	Write the equation for the total energy required to heat and then boil a substance?	
	Give two real-life examples where latent heat plays an important role.	
	Describe the basic function of a heat pump.	

Heat Energy	Questions	Answers
	What is the role of the refrigerant in a heat pump?	
	Name three devices that use heat pump technology.	
	Why does a water-filled balloon not burst when held over a flame?	