2 Class 9 Science – Worksheet 1

Chemistry:	Matter	in Our	r Surrounding	gs
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Chemistry: Matter in Our Surroundings		
1 Mark Questions		
1. Define latent heat of fusion.		
2. Name the process in which a liquid changes into vapour without heating.		
3. Write the SI unit of pressure.		
2 Mark Questions		
4. Why do we feel cool when we pour some acetone or perfume on our palm? (Give reason		
5. State any 4 differences between evaporation and boiling.		
6. Why do solids have a definite shape and volume?		

3 Mark Questions
7. Explain why:
a) It is difficult to cook rice at high altitudes.
b) Ice floats on water.
c) Gas exerts pressure on the walls of the container.
d)Archit dropped a Crystal of potassium permanganate intotwo beakers A &B containing hot water and cold water respectively. After keeping the beakets undisturbed for sometime, what did he observe and why?
8. List three factors which affect the rate of evaporation. Explain briefly.
5 Mark Questions (Including HOT/Analysing)
9. "a) A desert cooler works better on a dry day." Explain scientifically with reasons.
b)Why the gases are highly compressible as compared to solids and liquids?
Which gas is used as a fuel in vehicles these days .?
10. Analyse the interconversion of states of matter with the help of a labelled diagram.

11. A closed and gases:	l vessel contai	ns three states of ma	atter. Compare	the following properties of solids, liquids,
a)Shape	b)Volume.	. c)Compressibility.	d)Diffusion.	e)Kinetic energy
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Biology: The	e Fundamenta	l Unit of Life		
1 Mark Que				
1. Who disc	overed the ce	ll?		
2. Which or	ganelle is calle	ed suicide bags of the	e cell .Why?	
3. Name the	e cell organelle	e responsible for pho	otosynthesis.	
2 Mark Que				
4. Give one	reason: a)Wh	y does a raisin swell	up when kept i	n water?
			_	two beakers A &B containing hot water and ed for sometime, what did he observe and
why?	espectively.A	itel keeping the bea	kets undistarbi	ta for sometime, what are the observe and
5. Different	iate between	prokaryotic and euka	arvotic cells (ar	ny two points).
J. Dillerent	ace Servicell	p. Shar your and cake	2. , Ocio eciio (di	i, the points,

6. State two functions of a) mitochondria. b) Plastids		
3 Mark Questions		
7. Explain the role of nucleus in a cell.		
8. Describe the functions of endoplasmic reticulum. Distinguish between RER and SER.		
9. What will happen to a plant cell if it is kept in:		
a) Hypotonic solution		
b) Hypertonic solution		
Explain with daily life example s		
5 Mark Questions		
10 "Plasma membrane is essential for cell survival." Justify the statement with suitable examples.		
11. Analyse the functions of the following cell organelles and explain how they work together:		

a)Mitochondria.	b)Ribosomes.	c)Golgi apparatus
d)Lysosomes.	e)Vacuole	
12. Draw a neat lak	pelled diagram of	an animal cell and explain the function of four major organelles.