



INDIAN SCHOOL DARSAIT
DEPARTMENT OF CHEMISTRY



Subject: Chemistry Topic : states of matter Date of Worksheet: 4.2.2019		
Resource Person: Rohitha Date of Submission: _____		
Name of the Student: _____ Class & Division: XI Roll Number: _____		
1	Why Helium is used in balloons in place of hydrogen?	1
2	At what temperature below which a gas does not obey ideal gas law?	1
3	At what temperature the volume of a gas is supposed to be zero?	1
4	Name the temperature above which a gas cannot be liquefied by any amount of pressure.	1
5	How is the partial pressure of a gas in a mixture related to the total pressure of the gaseous mixture?	1
6	Define: a)critical pressure b)Boyle temperature	2
7	What is the effect of increase of temperature on surface tension and viscosity in a liquid?	2
8	a)Why vegetables are cooked with difficulty at hill station. b) Define absolute zero.	2
9	a) What type graph will you get when PV is plotted against P at constant temperature? b) State Boyle's law.	2
10	Calculate temperature of 4.0 moles of gas occupying 5dm ³ volume at 3.32 bar. (R= 0.083 bar dm ³ k ⁻¹ mol ⁻¹)	2
11	Calculate the total pressure in mixture of 4g of O ₂ and 2gm of H ₂ can fixed to a total volume of IL at 0°C. (R = 0.0821) Latm. Mol ⁻¹	2
12	What do you mean by ideal gas and real gas? Why do real gases deviate from ideal behaviors	2
13	Using the equation of state PV=nRT Show that at given T,density of gas proportional to gas pressure P.	2
14	State charle's law. Give the mathematical expression. Also draw the isobar for the law.	2