## KERALA PUBLIC SCHOOLS

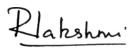
## **ACADEMIC YEAR 2020-21**



## **HOME ASSIGNMENT (14th to 26th June 2021)**

DATE	CLASS	SUBJECT	TOPIC	ASSIGNMENT	WEBLINK	
15.6.21	Х	Chemistry	Hydrogen	Name the chemicals used to prepare hydrogen		
TO			chloride	chloride in lab.		
30.6.21				2. Why are these chemicals are preferred?		
				3. Why is conc. Nitric acid not used?		
				4. What is the drying agent used?		
				5. Why phosphorus pentoxide is not used to dry HCl gas?		
				<ol> <li>State your observation when sodium chloride is heated with conc. Sulphuric acid in a flask.</li> </ol>		
				7. What do you observe when hydrogen chloride is		
				exposed to air? Why?		
				8. Write the equation for the lab. Preparation of HCl.		
				<ul> <li>9. Why is the temperature maintained below 200°C?</li> <li>10. How is the gas collected? Why?</li> </ul>		
				11. How will you understand whether the gas jar is full with HCl or not?		
				12. Which property of hydrogen chloride is		
				demonstrated by fountain experiment?		
14.06.21		Computer	Number	Program 1		
То			System	A special two-digit number is such that when the		
26.06.21				sum of its digits is added to the product of its		
				digits, the result is equal to the original two-digit		
				number.		
				Example: Consider the number 59.		
				Sum of digits = 5 + 9 = 14		
				Product of digits = 5 * 9 = 45		
				Total of the sum of digits and product of digits = 14 + 45 = 59		
				Write a program to accept a two-digit number.		
				Add the sum of its digits to the product of its digits.		
				If the value is equal to the number input, display		
				the message "Special 2 - digit number" otherwise,		
				display the message "Not a special two-digit number".		
				Draguan 2		
				Program 2.		
				An air-conditioned bus charges fare from the		
				passengers based on the distance travelled as per the tariff given below:		
				Distance Travelled Fare		
				Up to 10 km Fixed charge Rs80		

11 km to 20 km	Rs6/km	
21 km to 30 km	Rs.5/km	
31 km and above	Rs 4/km	
Design a program to input the passenger. Calculate paid.  Program 3.	-	
Marks obtained in different subjects	Stream	
Eng, Maths and Science >= 80%	Pure Science	
Eng and Science >= 80%, Maths >= 60%	Bio. Science	
Eng, Maths and Science >= 60%	Commerce	
Print the appropriate str candidate. Write a progr English, Maths and Scien	am to accept marks in	



**DIRECTOR ACADEMICS**