

Sprawling Buds ICSE School, Jammu

**(Affiliated to Council for the Indian School Certificate Examination , New Delhi .
School Code JK 001)**

Holiday Homework Class :VIII

S.No.	Subject	Holiday Homework
1	Chemistry	<p>1. Describe the main postulates of kinetic theory of matter. Explain the reason of one change of the matter to another and vice versa on the bases of inter particle space and inter particle attraction collision.</p> <p>2. Illustrate different changes occurring in nature with examples . Draw a diagram of physical and chemical changes on A-4 size sheet</p>
2	Hindi	<p>1. Kam se kam chaar aise bacchon ke baarein mein jankari prapt kijiye, jinhone apne desh ka sar garv se ooncha kiya hai. Aur use uttar pustika mein unki tasveer sahit likhiye.</p> <p>2. Apne aas-paas ke vrikshon ke hindi ke naam pata kijiye aur patton ko ekatrit kijiye. Inmein se kinhin chaar ki jankaari aur isse sambandhit lokkathaon ya riwazon ki jankari ekatrit kar chart dwara prastut kijiye.</p> <p>3. Koi chaar baatein chuniye, jinhe aap apne samaj mein ya desh mein badalna chahte hain. Un par aap kaisi aur kya kya kaam karenge. Uski yojna banakar prastut kijiye.</p> <p>4. Kisi aitihasik sthal ke bhraman ka sampoorn yatra vratant apne shabdon mein likhiye.</p>
3	English Language and Literature	<p>1 Write a newspaper report(300-350 WORDS) on how environmental changes are affecting the birds population of the Indian subcontinent. Write in an A-4 sheet.</p> <p>2.Traffic jams in your city/town are getting worse day after day. Write a letter to the Deputy Commissioner of traffic police complaining about the problem and offering suggestions for improvement</p>

4	History, Civics & Geography	<p>1 Watch the movie " Modern Times" It features Charlie Chaplin. After watching the movie . Discuss and write down the theme, Life Skills, Social Skill Empathy , Sensitivity)</p> <p>2. With reference to the Industrial Revaluation write down How was the domestic system of production different from the factory system of production . Why did Industrial Revolution start in England. List Five Major inventions of Industrial Revolution.</p> <p>3. With reference to the causes of American Revolution answer the following:- Mention any two problems in the Administrative system., Why did King George III not allow the Americans to expand to the west.</p> <p>Geography :- Write down the difference between Map, Sketch , Plan and Globe.</p> <p>2 On an outline map of the world mark the top five populous countries of the world . Locate the important mountain ranges on the World Map.</p> <p>3. Write down the meaning, formation and characteristics of fold and block mountains.</p>
5	Biology	<p>1. To demonstrate transpiration . Take a small sized ,well watered potted plant . Cover the plant with a transparent polyethene bag and tie its mouth around the base of the pot . Leave the plant in sunlight and note and write down the changes after a few hours.</p> <p>2. Analyse the Advantages and Disadvantages of the Vegetative Reproduction.</p> <p>3 Make a chart of any one of the following</p> <p>(a) xylem elements</p> <p>(b) T.S Of mango stem</p> <p>(c)Any one method of asexual reproduction</p>
6	Mathematics	<p>Ratio and Proportion :- This theme at the stage develops in children the ability to understand and appreciate another way of the application of mathematics in daily life is called commercials mathematics. The percentage ,unitary method , profit and loss, simple and compound interest etc. Based on the said topic solve slightly advances problems involving application of percentage ,profit and loss, overhead expenses, discount and tax. Difference between simple and compound interest.</p>

7	Physics	1 Make a project or a working model related to your subject in the area of your interest. The idea should be innovative and such that it can be displayed if a science fair or a science exhibition is held anywhere 2 Using the internet find out more information on Robert brown and his phenomenon of Brownian motion.
8	Computer	PowerPoint presentation on types of operating system(OS) and Graphical User interface (GUI) - Role and functions.
9	Extra Curricular activity	In a project file write about the result of IPL Match 2019 and important information about all the players of the winner team of IPL 2019

Instructions to the Parents:

- Originality and creativity of the work will be appreciated.
- Holiday Homework should be done subject-wise in A4 rules sheets under your guidance.
- Kindly ensure that the completion of homework on time and tell your ward to practise for writing work which is very important for Board Examinations.

EXERCISE 1(A)

1. Add each pair of rational numbers, given below, and show that their addition (sum) is also a rational number :

(i) $\frac{-5}{8}$ and $\frac{3}{8}$ (ii) $\frac{-8}{13}$ and $\frac{-4}{13}$

(iii) $\frac{6}{11}$ and $\frac{-9}{11}$ (iv) $\frac{5}{-26}$ and $\frac{8}{39}$

(v) $\frac{5}{-6}$ and $\frac{2}{3}$ (vi) -2 and $\frac{2}{5}$

(vii) $\frac{9}{-4}$ and $\frac{-3}{8}$ (viii) $\frac{7}{-18}$ and $\frac{8}{27}$

2. Evaluate :

(i) $\frac{5}{9} + \frac{-7}{6}$ (ii) $4 + \frac{3}{-5}$

(iii) $\frac{1}{-15} + \frac{5}{-12}$ (iv) $\frac{5}{9} + \frac{3}{-4}$

(v) $\frac{-8}{9} + \frac{-5}{12}$ (vi) $0 + \frac{-2}{7}$

(vii) $\frac{5}{-11} + 0$ (viii) $2 + \frac{-3}{5}$

(ix) $\frac{4}{-9} + 1$

3. Evaluate :

(i) $\frac{3}{7} + \frac{-4}{9} + \frac{-11}{7} + \frac{7}{9}$

(ii) $\frac{2}{3} + \frac{-4}{5} + \frac{1}{3} + \frac{2}{5}$

(iii) $\frac{4}{7} + 0 + \frac{-8}{9} + \frac{-13}{7} + \frac{17}{9}$

(iv) $\frac{3}{8} + \frac{-5}{12} + \frac{3}{7} + \frac{3}{12} + \frac{-5}{8} + \frac{-2}{7}$

4. For each pair of rational numbers, verify commutative property of addition of rational numbers :

(i) $\frac{-8}{7}$ and $\frac{5}{14}$ (ii) $\frac{5}{9}$ and $\frac{5}{-12}$

(iii) $\frac{-4}{5}$ and $\frac{-13}{-15}$ (iv) $\frac{2}{-5}$ and $\frac{11}{-15}$

(v) 3 and $\frac{-2}{7}$ (vi) -2 and $\frac{3}{-5}$

5. For each set of rational numbers, given below, verify the associative property of addition of rational numbers :

(i) $\frac{1}{2}, \frac{2}{3}$ and $\frac{-1}{6}$

(ii) $\frac{-2}{5}, \frac{4}{15}$ and $\frac{-7}{10}$

(iii) $\frac{-7}{9}, \frac{2}{-3}$ and $\frac{-5}{18}$

(iv) $-1, \frac{5}{6}$ and $\frac{-2}{3}$

6. Write the additive inverse (negative) of :

(i) $\frac{-3}{8}$ (ii) $\frac{4}{-9}$

(iii) $\frac{-7}{5}$ (iv) $\frac{-4}{-13}$

(v) 0 (vi) -2

(vii) 1 (viii) $-\frac{1}{3}$

(ix) $\frac{-3}{1}$

7. Fill in the blanks :

(i) Additive inverse of $\frac{-5}{-12} = \underline{\hspace{2cm}}$

(ii) $\frac{-5}{-12} + \text{its additive inverse} = \underline{\hspace{2cm}}$

(iii) If $\frac{a}{b}$ is additive inverse of $\frac{-c}{d}$, then $\frac{-c}{d}$

is additive inverse of $\underline{\hspace{2cm}}$.

And so $\frac{a}{b} + \frac{(-c)}{d} = \frac{(-c)}{d} + \frac{a}{b} = \underline{\hspace{2cm}}$

8. State, true or false :

(i) $\frac{7}{9} = \frac{7+5}{9+5}$ (ii) $\frac{7}{9} = \frac{7-5}{9-5}$

(iii) $\frac{7}{9} = \frac{7 \times 5}{9 \times 5}$ (iv) $\frac{7}{9} = \frac{7 \div 5}{9 \div 5}$

(v) $\frac{-5}{-12}$ is a negative rational number

(vi) $\frac{-13}{25}$ is smaller than $\frac{-25}{13}$.