

Sprawling Buds ICSE School, Jammu

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

HOLIDAY HOME WORK

CLASS VI

S.No.	Subject	Holiday Homework
1	Mathematics	<ul style="list-style-type: none">• Introduction to Introduction to Sets• Idea of set notation• Set notation• Finite & infinite sets• Cardinality of a set• Roster listing and Set Builder collection of distinct objects• Denoting sets by capital letters and elements by small letters• Sets of numbers• Symbols• Review of Introduction to Sets• Venn Diagrams
2	Physics	<p>1. Define Matter, Describe what matter is made of, List and Distinguish properties of Solid, Liquid and Gas.</p> <p>2. What is length, Name four early units of measurement of length. Why do we need standard units of measurement.</p>
3	Biology	<p>1. Plants play an important role in our life. There exists a great variety of plant life on the planet. Write down the external structure of and parts of leaf, kinds of leaf (simple and compound) , functions of leaf.</p> <p>(a) Collect different leaves and classify them according to phyllotaxy.</p> <p>(b) Collect leaves showing reticulate and parallel venation. Dry them and paste in a scrap book</p> <p>(c) Make a chart of leaf modification</p> <p>Activity :- Take a peepal leaf and soak it in vinegar or water for a few days. Rub the leaf with your fingers gently . The green portion of the leaf will come out by rubbing . You will observe a very fine network of</p>

		veins . Dry it as it may contain moisture you can use this leaf to make a birthday card for your friend or parents.
4.	Chemistry	<p>☐ Chemistry is everywhere around us. It's the science behind making of toothpaste, soap, jams, cakes, medicines.</p> <p>☐ Chemistry is the science that deals with the study of substances, their composition, properties, and the changes that take place in them when they interact with each other. People who study chemistry are called Chemists.</p> <p>☐ Chemists work in laboratories to perform various experiments</p>
5.	Hindi	<p>1) Apni manpasand pustak ki nimnikhit binduon ke adhar par samiksha kijiye. Yeh samiksha ek file mein likhiye.</p> <ul style="list-style-type: none"> • Lekhak ka naam • Prakashak ka naam • Vishay vastu (Pustak mein kya likha hai) • Pustak mein kya acha aur bura laga • Kaun sa patra sabse accha laga aur kyun • App usmein kya sudhar karna chahenge (Udgam - Page 17) <p>2) Chuttiyon mein aap jahan ghumne gaye wahan ki yatra ka varnan kijiye aur usmein se sangya aur visheshan shabd chaantkar likhiye.</p>
6	History & Civics	<p>1. If you were a member of a town planning committee, what ideas would you borrow from the Harappan Civilization to improve the conditions in your city? Draw a plan of your remodelled city</p> <p>2. Prepare a scrap book musical Instruments used during the Vedic Period write down a brief story on the basic Gurukul system (if selected) will organise a Skit (on your story) in school assembly.</p>
7	Computer	<p>PowerPoint presentation on - Types of computers and computer languages.</p> <p>Write a short note on File Management and Organisation of Data</p>
8	English	<p>Write composition on any one of the following topics. (Word limit 150-200).</p> <p>Autobiography of a Butterfly</p> <p style="text-align: center;">OR</p> <p>A school excursion trip to a historical place during your last holiday.</p> <p>Letter Writing:-</p> <p>You have just joined a new school where you live in the hostel. Write a letter to your mother telling her about the food and other facilities in the hostel, and also about your roommate</p> <p style="text-align: center;">Or</p> <p>Write a letter to your father asking for permission and money</p>

		to go on a school trip. You are Steve, living at C/59 Mall Road, Kanpur 100121.
9	GK	Cut and paste 15 headlines from the newspaper in a scrapbook for the month of May and June related to your state.

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 $\frac{-5}{-12} = \dots\dots\dots$
 (ii) $\frac{-5}{-12} +$ its additive inverse = $\dots\dots\dots$
 (iii) If $\frac{a}{b}$ is additive inverse of $\frac{-c}{d}$, then $\frac{-c}{d}$ is additive inverse of $\dots\dots\dots$

And so $\frac{a}{b} + \frac{(-c)}{d} = \frac{(-c)}{d} + \frac{a}{b} = \dots\dots\dots$

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 $\frac{-25}{13}$