



ARMY PUBLIC SCHOOL BIRPUR DEHRADUN

SUMMER HOLIDAY HOMEWORK SESSION 2023-24

CLASS - 8

**ENGLISH**

**1. Poster Making ( To be done in ½ size chart paper )**

Create an attractive, colorful and eye catching poster on any one of the given topics ( word limit -50 words):

- Obeying Traffic Rules
- Donate Organs Save Lives

**2.Creative Writing**

Write a self composed poem / short story /article (on any topic ) in an A4 sheet. Original & best pieces of writing will be published in the school magazine.

**3.Handwriting**

Summer break is a perfect opportunity to improve your handwriting. Do one page writing daily in a new notebook.

**4. Revision**

Revise all the work done in the class so far.

**हिन्दी**

- 1) “पुदुचेरी” के रीति-रिवाजों और त्योहारों को प्रदर्शित करते हुए परियोजना कार्य तैयार करें। (नोट - A4 शीट पर करें)
- 2) पूरकपुस्तक “भारत की खोज ”में से पाठ 1 से 3 तक पढ़ें और उस पर आधारित 20 लघुप्रश्न तैयार करें और उत्तरसहित A4 शीट पर लिखें।
- 3) करवाया गया समस्त पाठ्यक्रम नियतकालिक परीक्षा 1 हेतु याद करें।

**MATHS**

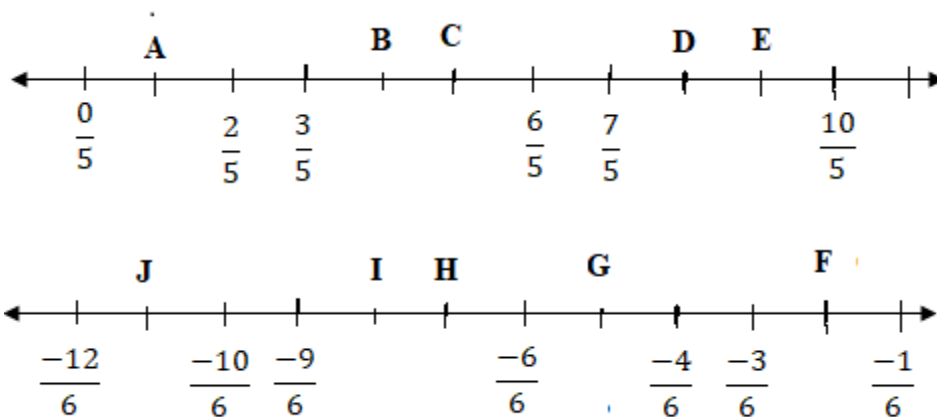
**CHAPTER 1:**

- Q1. We learn about Natural number, Whole number, Integer and Rational number. Represent this through diagram  
[ Hint : All natural number are Whole , all whole numbers are Integers and so on]
- Q2. Distinguish between Rational and Irrational number
- Q3. Complete the following table with Yes/No

	CLOSURE PROPERTY				COMMUTATIVE PROPERTY				ASSOCIATIVE PROPERTY			
	Addition	Subtraction	Multiplication	Division	Addition	Subtraction	Multiplication	Division	Addition	Subtraction	Multiplication	Division
Rational Number	yes											
Integers												
Natural Number												

[ Hint: Rational numbers are closed under addition therefore yes. Read NCERT textbook carefully]

- Q4. Write the rational number for each point labeled with a letter.



- Q5. Fill in the blank  
(i). ----- is the additive Identity for rational number

- (ii). -----is the multiplicative Identity for rational number
- (iii). Additive inverse of  $\frac{p}{q}$  is -----
- (iv). Multiplicative Inverse or Reciprocal of  $\frac{a}{b}$  is -----

### **CHAPTER 2:**

- Q6. Solve:  $3m = 5m - \frac{8}{5}$
- Q7. Solve:  $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$

### **LOGICAL REASONING QUESTIONS**

- Q8. Solve the puzzle: Present age of Anand's mother is three times the present age of Anand. After 6 years their ages will add to 68 years. Find the present age.
- Q9. Solve the puzzle; Sum of two numbers is 18. If one number is 4 less than the other. Find the two numbers

### **LEARNING BY DOING. PROJECT WORK IS COMPULSORY (Either do in groups of three or Individually)**

- Q10. Explore yourself more in mathematics by doing project that makes you learn more.

Some topics for reference are listed below. You can make project on any topic of your own choice using your own imagination, Creativity using mathematical concepts.

1. Formation of various shapes of animals using Tangrams
2. Formation of shapes (of the proper display size) using paper folding or paper cutting.
3. Modal of different forms of polygon using thin sticks and beads or any other Glue material
4. Formation of 3D shapes using polygonal cut outs from cardboard.
5. Drawings with 3D effect.
6. Draw some designs using mathematical shapes and using colour.

### **SCIENCE**

1. Activity-1: Collect the pictures of various agricultural implements and paste them into your notebook. Write down their usage.
2. Activity-2 : Curd Formation To study the conditions necessary for the growth of curd bacteria.

Under the guidance of your mother or an elder at home make arrangement for the formation of curd. Write your experience in the form of a paragraph. Also write the name of bacteria involved in formation of curd.

3. Activity-3: 1. To know about the different methods of preservation. a) Collect the wrappers of frozen and canned food items and milk. b) Find about the preservatives present in these food items. c) List the various preservatives and methods of their preservation.

2. List down the food items that are generally spoiled by the presence of bacteria. Taking any one example explain how it can be prevented.

4. Activity-4: Find out biodegradable and non-biodegradable material used in day to day life. Think about how you can reduce, reuse, recycle and recover (4R's principle) materials and write about it.

5. Activity-5: In older time coal was the main fuel used for cooking. Now a days which fuel is mainly used for cooking and what is its advantage over coal?

**Map Activity** Take a map of India and locate the places where the reservoirs of coal, petroleum and natural gas are found. Identify the states where they are found in abundance.

What practice you will follow in your daily life for saving fuel? Write a paragraph on it.

6. Activity-6: Make a Project file and Write and paste pictures about Location, Natural Region, Vegetation, Dresses, Occupation, Industries, Dances, Language, Places to Visit and Food of Puducherry.

7. Complete your copy work and learn Question Answers of all the chapters done in the class.

**Note: Except Activity 6 all the above activities should be done in Scrap book.**

### **SOCIAL-SCIENCE**

1. COLLAGE MAKING:- Collect information about various natural resources and wildlife found in **Puducherry and Uttarakhand** and make a collage of them . (Art integration)

2. Make your own book on the Journey of Constitution design .Also, add pictures and write about any 15 members of Constituent assembly in your book.(Make your own book by a thin notebook or use your creativity for making a book.)

3. Make 10 extra questions and write their answers each from History Ch-2 & 4, Geo Ch-2 and Civ Ch-2 in a thin notebook.

4. Revise all the covered chapters .

### **संस्कृत**

1) कोई भी एक रंगीन चित्र A-4 शीट पर चिपकाएँ एवं उसका चित्र -वर्णन करते हुए 5 वाक्य संस्कृत भाषा में लिखें |

2) कोई एक औपचारिक पत्र सजाकर A-4 शीट पर संस्कृत में लिखें |

3) प्रतिदिन संस्कृत का एक पाठ पढ़ें , जिससे उच्चारण में सुधार हो सके |

4)करवाया गया समस्त कार्य परीक्षा हेतु तैयार करें ।

### **INFORMATION TECHNOLOGY (IT)**

- Write and draw Network Topology, Communication Channels [Write in sheets]
- Write advantages and disadvantages of Database Management System
- Create a PowerPoint presentation and write about how you spend your vacations containing watermark, date, time, header, footer and photograph.
- Prepare Chapter - 1 & 2 for test

### **ARTIFICIAL INTELLIGENCE (AI)**

**Do the following in your A.I. notebook. Paste or draw pictures related to the topics.**

1. Use Mitsukuchatbot (<https://chat.kuki.ai/chat>) and share your experience in your notebook.
2. Play the following games and write a short note on:- How it is using AI and what was your experience while using it:
  - QuickDraw (<https://quickdraw.withgoogle.com/>)
  - Akinator (<https://en.akinator.com/game>)
  - Emoji Scavenger Hunt (<https://emojiscavengerhunt.withgoogle.com/>)
  - Semi-Conductor (<https://semiconductor.withgoogle.com/>)
3. Describe how is AI affecting your day-to-day life. Share the positive and the negative impacts.

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