



**DIPS EDUCATIONAL RESEARCH AND DEVELOPMENT BOARD**  
**HOLIDAY TASKS FOR SUMMER BREAK**  
**CLASS- 8<sup>th</sup>**



**Dear Students,**

**As the holidays approach, we hope you enjoy a refreshing and joyful break with your family. To keep the learning spirit alive, we have thoughtfully designed your holiday homework to be fun, engaging and creative. Here we go...**

**English**

1. Read a newspaper or a magazine of your choice and select any two unseen passages. Then frame 5 questions from each passage and write their answers.
2. Draw a short comic strip on a funny story.
3. Find the famous tourist places of Andaman Nicobar Islands. Paste some pictures and write a paragraph.
4. Create an attractive Sunday newspaper.
5. Prepare a file on your favourite poet. Write his bio sketch, major achievements and a piece of his work.

**Maths**

**Practical (Real – life context)**

**Topic : Rational numbers**

 Instructions:

Present your findings in a report

Address the following scenarios, perform the necessary calculations, and provide explanations.

1.) Budgeting for a Family Vacation

The Kapoor family plans a vacation and needs to budget for various expenses:

Find the total cost of each category

a) Transportation: Round-trip flights for 2 adults at Rs. 10000 each and 2 children at Rs. 8000 each.

b) Accommodation: 5 nights at Rs. 2500 per night.

c) Food: Rs. 100 per person per meal (for 4 people over 5 days).

d) Activities: Rs. 300 for various activities (overall per person).

Note – If you go on a trip, then you have to create a report that includes the total cost for each category (e.g., transportation, accommodation, food, activities, shopping, etc.).

**OR**

1.) Pizza Sharing Scenario

A customer orders a large pizza and consumes:

First:  $\frac{3}{8}$  of the pizza. Later:  $\frac{1}{4}$  of the pizza.

- a) Convert  $\frac{1}{4}$  to have the same denominator as  $\frac{3}{8}$ .
- b) Add the fractions to find the total amount eaten.
- c) Subtract from 1 to determine the remaining portion.

**Topic : Squares and square roots**

2.) Area of Tiles in a Square Room

For example: A square room is 8 meters on each side. Calculate how many  $1\text{ m} \times 1\text{ m}$  square tiles are needed to cover the floor.

Note: Calculate it according to any square room in your house (if any)

**OR**

2.) Perfect Square Hunt

Identify real-life objects with dimensions forming perfect squares.

Activity: Students take photos or list items at home or in public spaces that are perfect squares (e.g., handkerchiefs, square plates).

Record their dimensions and explain how square roots relate to these shapes.

**Topic : Linear equations in one variable**

3.) Budget Planning Project

Activity: "You want to buy notebooks and pens with a total budget of ₹200. Notebooks cost ₹40 each and pens cost ₹20 each."

Let one quantity be unknown (e.g., number of notebooks).

Frame and solve a linear equation to find out how many of each can be bought.

**OR**

3.) Distance-Time-Speed Tracker

Activity: Assume a situation like: "You travel a distance at a speed of 60 km/h. After some time, you stop for 30 minutes. The total time is 3 hours."

Find travel time using a linear equation.

# ASSIGNMENT-1

## Section A: Rational Numbers (1–7)

1. Simplify:  $\frac{2}{3} + \frac{4}{5}$
2. Find the reciprocal of  $-\frac{3}{7}$
3. Which is greater:  $\frac{-5}{8}$  or  $\frac{-3}{4}$ ?
4. Subtract:  $\frac{7}{9} - \frac{2}{3}$
5. Multiply:  $\frac{-2}{5} \times \frac{3}{7}$
6. Divide:  $\frac{6}{11} \div \frac{3}{22}$
7. Represent  $-\frac{5}{6}$  on a number line.

## Section B: Linear Equations in One Variable (8–15)

8. Solve:  $5x - 3 = 2x + 9$
9. Solve:  $\frac{x}{3} + 2 = 5$
10. Solve:  $4(x - 2) = 2(x + 3)$
11. Find the value of  $x$ :  $\frac{2x-3}{5} = 3$
12. A number increased by 7 is 25. Find the number.
13. Solve for  $x$ :  $3x + 5 = 2x + 11$
14. The sum of two numbers is 40. One number is twice the other. Find them.
15. Solve:  $2(3x - 1) = 4x + 6$

## Section C: Squares and Square Roots (16–22)

16. Find the square root of 225.
17. Is 50 a perfect square? Justify.
18. Simplify:  $\sqrt{144} + \sqrt{64}$
19. Find the smallest number to be added to 85 to make it a perfect square.

20. Find the square of 23.
21. Find the square root of 0.49.
22. Estimate the square root of 30 to one decimal place.

## Section D: Cubes and Cube Roots (23–28)

23. Find the cube of 7.
24. Is 1000 a perfect cube?
25. Simplify:  $\sqrt[3]{-216}$
26. Find the cube root of 512.
27. Find the smallest number by which 72 must be multiplied to make it a perfect cube.
28. Write a cube root which is irrational.

## Section E: Exponents and Powers (29–35)

29. Simplify:  $2^5 \times 2^3$
30. Simplify:  $(3^4)^2$
31. Find:  $(\frac{2}{5})^3$
32. Write in standard form:  $7 \times 10^5$
33. Simplify:  $5^{-2}$
34. Express 0.00036 in scientific notation.
35. Evaluate:  $\frac{2^4 \times 3^2}{6^2}$

## Science

1. Under the guidance of your mother or elder at home make arrangement for the formation of curd. write your experience. find out the name of bacteria involved in formation of curd .write uses of curd also.
2. Research on the soles of shoes worn by football player, or basketball player, a ballet dancer do you find any difference in their sole type find out why shoes have different soles if you were a shoe designer ,what type of shoes would you design for your grandfather enable them to walk comfortably.
3. Floating egg experiment:-\_Dissolve salt in water until an egg floats.Explore density and buoyancy by adding salt gradually to see how it affects the position in the water .
4. Collect data on various plants and animals of various biosphere reserve /National Park /wildlife sanctuary of India.
5. Revise chapter 5, 9 (full)  
Conservation of plants and animals And Friction.

### Make a chart on these topics:-

- 1.Different types of microorganisms Bacteria and viruses. (Rno.1-10)
- 2Life cycle of a frog (Rno.11-20)
- 3 Binary fission in Amoeba (Rno.21-30)

## Social Science

### 1. History Project – Freedom Fighters of India

**Chapter Reference:** *When People Rebel (1857) and Freedom Movement*

Choose **any one freedom fighter** from the Indian Independence movement (1857–1947) and prepare a project file or chart.

Include:

- Birth and early life
- Major contribution to the freedom struggle
- Inspirational quote or event
- A drawing or printed picture

Suggested Names: Bhagat Singh, Subhash Chandra Bose, Rani Lakshmi Bai, Mahatma Gandhi

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### 2. Geography Activity – Resources Around Me

**Chapter Reference:** *Types of Resources / Natural Vegetation and Wildlife*

Make a **collage** showing:

- Different **natural, human, and man-made resources**
- Cut out pictures from newspapers/magazines or draw them
- Paste on A4 size sheet with labels and title

Bonus: Mention which resources are found in your state.

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### 3. Civics Task – Understanding the Indian Constitution

**Chapter Reference:** *The Indian Constitution / Secularism*

Prepare a chart or write-up on "**Key Features of the Indian Constitution**", including:

- 5 key features (e.g., democracy, justice, secularism)
- What each one means in simple words
- Illustrate each with a real-life example or drawing

Optional: Write a short pledge about being a good citizen.

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### 4. Research Work – Local Government in Action

**Chapter Reference:** *The Role of the Government in Health or Local Self Government*

Ask your parents or neighbours:

- Who is the local MLA or ward member?
- What services does the local government provide? (e.g., water, waste management, healthcare)

Write 10–12 lines about how local governance works in your area. Add a photo if you can.

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### 5. Map Work – Revolt of 1857 (History)

On a physical or political map of India:

- Mark 5 key centers of the **1857 revolt** (e.g., Delhi, Kanpur, Lucknow, Jhansi, Meerut)
  - Use colour coding and symbols
  - Create a legend/key for the map
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#### General Instructions:

- Use your Social Science notebook or a file folder.
- Be neat and creative.
- All diagrams/maps should be **properly labeled**.

### Hindi

1. अनुच्छेद लेखन -

विषय - 'डिजिटल भारत' भविष्य की ओर एक कदम'

150-200 शब्दों में लिखें

रंगीन चित्रों के साथ सजाएँ

2. पत्र लेखन -

विषय - अपने मित्र को पत्र लिखिए जिसमें आप अपनी गमियों की छुट्टियों की योजनाएं सांझा कर रहे हों।

3. मुहावरे और उनके चित्र पाँच प्रमुख मुहावरों का चित्रात्मक प्रस्तुतीकरण करें व अर्थ लिखें तथा वाक्य

भी बनाएँ

\*चूड़ियाँ पहनना

\*अपनी खिचड़ी अलग पकाना

\*उल्लू बनाना

\*चार चाँद लगाना

\*दाँतो तले उंगली दबाना

4 संवाद लेखन

विषय:- शिक्षक और छात्र/छात्रा के बीच डिजिटल शिक्षा' या 'पर्यावरण संरक्षण' पर संवाद लिखें।

5 प्रोजेक्ट आधारित कार्य (Project Work)

R.NO 1-10 हिंदी दिक्स' पर एक सुंदर चार्ट बनाएँ

R.No 11-20 प्लास्टिक के लाभ व हानियाँ पर Project file बनाएँ

R.NO 21-30 लाख की चूड़ियों का निर्माण तथा उपयोग पर Project file बनाएँ

R.NO 31-40 'योग का महत्व पर विभिन्न चित्रों के साथ Project file तैयार करें।

\*अभी तक का करवाया गया संपूर्ण पाठ्यक्रम दोहराएँ व लिखित अभ्यास करें।

\*ग्रीष्मकालीन गृहकार्य को अत्यंत सुंदर, साफ-सुथरे और व्यवस्थित तरीके से पूरा किया जाना चाहिए।

यह कार्य न केवल आपकी रचनात्मकता और परिश्रम को दर्शाएगा, बल्कि इसके अंक भी दिए जाएंगे।

अतः इसे गंभीरता और समर्पण के साथ समय पर पूरा करें।

## Punjabi

1. पेंसटर बਣਾਓ: ਪੰਜਾਬੀ ਤਿਉਹਾਰ

• ਕਿਸੇ ਇੱਕ ਪੰਜਾਬੀ ਤਿਉਹਾਰ (ਲੋਹੜੀ, ਵਿਸਾਖੀ, ਗੁਰਪੁਰਬ ਆਦਿ) 'ਤੇ ਇੱਕ ਰੰਗੀਨ ਪੇਂਸਟਰ ਬਣਾਓ। ਉੱਤੇ ਸਲੋਗਨ ਲਿਖੋ ਅਤੇ ਤਿਉਹਾਰ ਬਾਰੇ 5 ਲਾਈਨਾਂ ਵਿੱਚ ਜਾਣਕਾਰੀ ਦਿਓ।

2. ਕਹਾਣੀ ਲਿਖੋ: "ਮੇਰੀਆਂ ਛੁੱਟੀਆਂ"

• ਆਪਣੀਆਂ ਗਰਮੀਆਂ ਦੀਆਂ ਛੁੱਟੀਆਂ ਬਾਰੇ ਇੱਕ 100-150 ਸ਼ਬਦਾਂ ਦੀ ਕਹਾਣੀ ਪੰਜਾਬੀ ਵਿੱਚ ਲਿਖੋ।

• ਕਹਾਣੀ ਵਿਚ ਤਸਵੀਰਾਂ ਜਾਂ ਡਾਇਗ੍ਰਾਮ ਸ਼ਾਮਲ ਕਰ ਸਕਦੇ ਹੋ।

3. ਪੰਜਾਬੀ ਲੋਕ-ਗੀਤ/ਕਵਿਤਾ ਦੀ ਪ੍ਰਸਤੁਤੀ

• ਕੋਈ ਇੱਕ ਪੰਜਾਬੀ ਲੋਕ-ਗੀਤ ਜਾਂ ਕਵਿਤਾ ਚੁਣੋ।

• ਉਸ ਦੀ ਪ੍ਰਸਤੁਤੀ ਦੀ ਤਸਵੀਰ ਜਾਂ ਵੀਡੀਓ ਬਣਾਓ ਜਾਂ ਕਵਿਤਾ ਦੀ ਕਾਲੀਗ੍ਰਾਫੀ ਕਰਕੇ ਪ੍ਰੋਜੈਕਟ ਸ਼ੀਟ 'ਤੇ ਲਿਖੋ।

4. ਪੰਜਾਬ ਦੇ ਇੱਕ ਜ਼ਿਲ੍ਹੇ ਦੀ ਜਾਣਕਾਰੀ

• ਪੰਜਾਬ ਦੇ ਕਿਸੇ ਇੱਕ ਜ਼ਿਲ੍ਹੇ (ਜਿਵੇਂ ਅੰਮ੍ਰਿਤਸਰ, ਲੁਧਿਆਣਾ, ਬਠਿੰਡਾ) ਦੀ ਸੱਭਿਆਚਾਰਕ ਅਤੇ ਇਤਿਹਾਸਕ ਜਾਣਕਾਰੀ ਇਕੱਤਰ ਕਰੋ।

5. ਪੰਜਾਬੀ ਖਾਣੇ ਦੀ ਵਿਧੀ

• ਆਪਣੀ ਮਾਂ ਜਾਂ ਦਾਦੀ-ਨਾਨੀ ਤੋਂ ਇੱਕ ਪਰੰਪਰਾਗਤ ਪੰਜਾਬੀ ਖਾਣੇ ਦੀ ਵਿਧੀ ਲਿਖਵਾਓ।

• ਜਿਵੇਂ ਮੱਕੀ ਦੀ ਰੋਟੀ ਤੇ ਸਰੋਂ ਦਾ ਸਾਗ, ਛੋਲੇ-ਭਟੂਰੇ, ਆਦਿ।

• ਵਿਧੀ ਨੂੰ ਲਿਖ ਕੇ ਉਸ ਦੀ ਤਸਵੀਰ ਲਗਾਓ ਜਾਂ ਬਣਾਉਣ ਦੀ ਪ੍ਰਕਿਰਿਆ ਦੀ ਵੀਡੀਓ ਬਣਾਓ।

6. ਆਪਣੀ ਇੱਛਾ ਅਨੁਸਾਰ ਆਪਣੇ ਕਿਸੇ ਮਨਪਸੰਦ ਵਿਸ਼ੇ ਉੱਪਰ ਕਵਿਤਾ ਲਿਖੋ | ਜਿਵੇਂ ਮਾਂ, ਬਾਪੂ, ਕੁਦਰਤ, ਜ਼ਿੰਦਗੀ ਆਦਿ।  
ਨੋਟ:

• ਹਰੇਕ ਵਿਦਿਆਰਥੀ ਨੂੰ ਘੱਟੋ-ਘੱਟ 4ਕਾਰਜ ਪੂਰੇ ਕਰਨੇ ਹਨ।

• ਰਚਨਾਤਮਕਤਾ, ਲੇਖਣ ਸ਼ੈਲੀ ਅਤੇ ਪ੍ਰਸਤੁਤੀ ਨੂੰ ਅੰਕ ਦਿੱਤੇ ਜਾਣਗੇ।



**Stay safe, have fun and make the most of your summer holidays!**

**We'll see you soon with new energy and bright smile.** 😊