Laxman Public School

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SUMMER HOLIDAY

Homework

Class:VI Session 2025-26

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HOLIDAYS HOMEWORK 2025

<u>CLASS – 6</u>

Holidays are the best time of the year Time to shout, clap and cheer!! Jump about and have lots of fun, Enjoy treats in tons and tons!! Plan a trip, go around and explore, Be it mountains or the sea shore!! Playing or cycling whatever you do, Museums and mountains can be visited too, Try cool recipes with your grandparents too Experiments and projects to be done by you!!

ENGLISH

Dear students,

Your holiday homework is a fun mix of all the aspects of the English language. It has been designed to ensure that you enjoy and learn at the same time.

- Make a diary/journal of the things you did everyday during the summer holidays like fun activities, hobbies, chores, books you read, outings etc. Write 5-6 lines in your diary daily and draw caricatures to make your diary look attractive and illustrative.
- 2. Make a comic strip of you going on a dream vacation to any place of your choice on an A4 size sheet. Your comic should have atleast 4 scenes. Each scene should have a drawing with a description of it. Use good vocabulary and be creative. Below given is a sample you may refer to.



- **3.** Picture prompt story : Choose 3 interesting pictures (you can draw them or cut from a magazine). Write a different story or poem inspired by each one.
- **4.** Read any one of the following book in your summer break and make a book summary cube. The cube should have each side representing :
 - Title and author
 - Characters
 - Setting
 - Problem
 - Solution
 - Your review/favourite part

Suggested books :

- 1. The secret garden by Frances Burnett
- 2. Grandma's bag of stories by Sudha Murty
- 3. The magic of the lost temple by Sudha Murty
- 4. The blue umbrella by Ruskin Bond

HINDI

पाठ - 6 सत्रिया और बिहू नृत्य (निबंध) से प्रेरित -

प्रश्न 1 निम्नलिखित में से किसी एक राज्य को चुनकर उसकी संस्कृति, साहित्यिक कला ,रहन-सहन, खान-पान और आकर्षक स्थानों के बारे में लिखिए व चित्र भी चिपकाए।

- 1 पंजाब
- २ गुजरात
- **3 पश्चिम बंगाल**
- ४ केरल

प्रश्न 2 निम्न लिखित में से किसी एक लेखक की कहानियां पढ़े, उनकी जीवनी पर लिखे और किन्हीं दो कहानियों का सारांश भी लिखकर लाऐं। 1 सोहनलाल द्विवेदी

2 रामधारी सिंह दिनकर सभी विद्यार्थी इस कार्य को A4 size sheet में करेंगे। MATHS

Kindly **note** the following instructions:

- 1. To be done in your Maths Lab File.
- 2. The submission date is by 2nd week of July.
- 3. Be creative and neat.
- 4. This holiday homework will be evaluated for internal assessment.

Project

Topic - Patterns In Mathematics

Objective:

To explore and understand the concept of patterns in mathematics through number sequences, pictorial sequences, and patterns in shapes.

Instructions:

- Read the explanations carefully.
- Complete the activities given under each section.
- Use neat and colourful drawings for pictorial and shape patterns.
- Submit the project on time.

1. Introduction to Patterns

Patterns are arrangements of numbers, shapes, or objects that follow a specific rule. Identifying and understanding these patterns helps in solving mathematical problems efficiently.

Why are patterns important?

They help in making predictions. They improve problem-solving skills. They are used in daily life, from architecture to art.

2. Number Sequences

A number sequence is a list of numbers that follow a certain rule.

Examples include:

Example 1: Arithmetic Sequence

2, 4, 6, 8, 10, ... (Adding 2 each time)

Example 2: Geometric Sequence

3, 9, 27, 81, ... (Multiplying by 3 each time)

Example 3: Fibonacci Sequence

0, 1, 1, 2, 3, 5, 8, ... (Each number is the sum of the previous two numbers)

Activity:

Identify the <u>next three</u> numbers in the following sequences:

a) 5, 10, 15, 20, ____, ___, ___
b) 2, 6, 18, 54, ____, ___, ___
c) 1, 1, 2, 3, 5, ____, ___, ____
d) 1, 3, 5, 7, 9, ____, ___, ____
e) 2, 4, 6, 8, 10, ____, ____, ____
e) 2, 4, 6, 8, 10, ____, ____, ____
f) 1, 3, 6, 10, 15, ____, ____
g) 1, 4, 9, 16, 25, ____, ____
h) 1, 8, 27, 64, 125, ____, ____
i) 1, 2, 4, 8, 16, 32, ____, ____

Write the rule for each sequence.

3. Pictorial Sequences

Pictorial patterns involve repeating shapes, colours, or objects in a specific order.

Example:



Example:



Activity: Draw the next three shapes in the sequence:



Explain the rule used in your pattern.

4. Patterns in Shapes

Mathematics also involves patterns in shapes. Shapes can be arranged in symmetrical or repeated forms.

Example:

Triangles arranged in increasing or decreasing sizes. Squares forming a grid with repeating colours. Hexagons forming a honeycomb pattern. Polygons arranged in sequence:



Activity: Draw and colour a pattern using squares, triangles, and circles. Ensure your design has a clear, recognisable pattern.

5. Patterns in Daily Life

Patterns can be observed in nature, architecture, and art. Some examples include:

Nature: The arrangement of petals in flowers and the spiral in pinecones.

Architecture: Designs on tiles, walls, and floors.

Art: Rangoli patterns and fabric designs.

Activity:

Take pictures or draw examples of patterns you see around you. Describe the pattern and its rule.

6. Conclusion

Patterns are everywhere in our daily lives, from the designs on fabrics to tiles on floors. Recognising patterns helps us predict, calculate, and create beautiful designs.

Fun Activities

(from Chapter 3 - Number play)

1. Super Cells:

A Cell becomes a Super Cell if the number in it is greater than all the numbers in its neighbouring cells.

Example:

43 79 75 63 10 29 28 34

The coloured cells are called Super Cells.

Activity:

Colour the Super Cells in the table below:

68	67	94	37	73	80	55	52
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2. Palindromes:

These numbers read the same from left to right and from right to left.

They are also called Palindromic Numbers.

Example:

66, 848, 1111, 1234321

Activity:

Write at least 6 three-digit palindromes using the digits 1, 2, and 3.

3. The magic number of Kaprekar:

D.R. Kaprekar was an Indian mathematician renowned for discovering the Kaprekar constant (6174) and his contributions to number theory. His work on self-numbers and Kaprekar numbers left a lasting impact in recreational mathematics.

Follow these steps and experience the magic for yourselves:

Step 1: Pick any 4-digit number having at least two different digits. (say 6382)

Step 2: Make the largest number from these digits. Call it A. (8632)

Step 3: Make the smallest number from these digits. Call it B. (2368)

Step 4: Subtract B from A. Call it C. (8632 - 2368 = 6264)

Step 5: Keep repeating Steps 1 to 4 over and over till you get the Kaprekar's Constant (6174).

Current number: 6264 A = 6642 B = 2466 C = A - B = 4176

Current number: 4176 A = 7641 B = 1467C = A - B = 6174 (Kaprekar's constant)

You will ALWAYS reach the Magic Number 6174.

This Magic Number is also called Kaprekar's constant.

Activity:

Repeat the activity shown above with any two different 4-digit numbers of your choice.

Enjoy exploring the patterns and activities and good luck with your holiday homework!

SCIENCE

Note:

- Students should do the holiday homework on A4 size sheets and compile in a folder.
- Projects related to "Beyond Earth" will be assessed for the internal assessment.
- The holiday homework projects should be made colourful and in neat handwriting.
- Refer to Chapter-12 : The Universe in your Science book for guidance.
- The submission date is by 2nd week of July.



BEYOND EARTH

Dear students, there is a lot more you can do to make your summer vacations more interesting, meaningful and full of fun, along with doing all that your heart desires. Here are few interesting projects related to YOUR UNIVERSE which you will certainly enjoy.

Project-1:

Prepare a model of our solar system using the material easily found at home.

Project-2: Find what is the constellation related to your zodiac sign. Write down the name of the constellation and draw its diagram.

Project-3:

Draw your own satellite.

ISRO (Indian Space Research Organisation) has asked you to draw and colour the next satellite that will be launched into space.

In your drawing, include:

- \longrightarrow An antenna so that it can communicate with the earth.
- → Solar panels so it has energy to complete its tasks.
- \longrightarrow A computer box to feed all the information and perform its functions.

Also think and answer:

Where is your satellite going?

How far it will be travelling?

What is the purpose of launching this satellite?

SOCIAL SCIENCE

Note: This project is to be done on A4 size sheets compiled in a file folder.

HISTORY:

Draw a timeline of your grandparent (grandfather or grandmother) starting from the year of his/her birth to the current year. Mention at least 10 events that were an important part of their life (personal events or historical events). Illustrate the timeline using pictures or drawings, wherever required.



GEOGRAPHY:

Atlas is a book of maps. You all have learnt how to read an atlas.

- i. Using an atlas, write the latitudinal and longitudinal values of the following cities of the world. (Use the table given below)
- ii. Assign a unique colour to each city (last column of the table).Take a political map of the world and locate these cities on that map. Use the colour assigned.

Name of the city	Latitudinal Value	Longitudinal Value	Colour
a. London			
b. Pune			
c. Dhaka			
d. Moscow			
e. Frankfurt			
f. New York			
g. Singapore			
h. Sydney			
i. Buenos Aires			
j. Vienna			



CIVICS:

You live in the capital city of India, New Delhi. Let's see how much you know about your city.

Answer the following questions related to Delhi. Give your answers as per the latest information. Illustrate with pictures, wherever possible.

- i. What are the full forms of NCR and NCT of Delhi?
- ii. Which party is presently ruling over Delhi?
- iii. Name the Chief Minister of Delhi.
- iv. Name the Lieutenant Governor of Delhi.
- v. Name the Mayor of Delhi.
- vi. Name the Education Minister of Delhi.
- vii. Name the Health Minister of Delhi.
- viii. Name the Law Minister of Delhi.
- ix. Name all the Members of Parliament elected from Delhi. Which areas do they belong to?
- x. Name the Member of Legislative Assembly elected from your area.
- xi. Name the councillor of your area.
- xii. How many voters are there in Delhi?



COMPUTER

General Instructions:

- 1. Write all the Q-A in Computer Copy.
- 2. Do all the practical work on Computer system and submit hard copy.
- Q1. What do you mean by Computer?
- Q2. Differentiate between following:
 - a) Input and output devices
 - b) Barcode Reader and OCR
 - c) OCR and OMR
 - d) MICR and OMR

- e) Plotter and Printer
- Q3. What do you mean by LCD Projector?
- Q4. What do you mean by editing a worksheet? Explain its two types.
- Q5. What do you mean by Alignment?

Q6 Write the steps for the following:

- a) Overwriting the cell contents
- b) Partially modify the cell contents
- c) Deleting the cell contents
- d) Inserting the row in an excel sheet table
- e) Inserting the column in an excel sheet table
- f) Inserting the cell in an excel sheet table
- g) Resizing the row
- h) Resizing the column

Practical Assignment: Ask your parents to show you the credit, debit or identity cards available with them and check whether these cards contain magnetic strip, smart card or wi-fi enabled or all types in one.

Do the Activities on the computer System and submit hard copy:

- 1. Collect the pictures of various input devices mentioned in this chapter and paste them in the computer copy with proper labelling.
- 2. Create a Presentation on Input and out devices.
- 3. Create an excel sheet with the following details:
 - a. Student information- create columns for Student Name, Roll no and Class (15 students)
 - b. Subject Grades- Create columns for grades in different subjects (eg. Math, Science, English)

- c. Total Score: Calculate the total score for each student using formulas.
- d. Average Grade: Calculate the average grade for each student.
- e. Ranking: Use formulas to rank students based on their score.

SANSKRIT

संस्कृत कक्षा-षष्ठी

1.दस-क्रियापदों के नाम संस्कृत में सचित्र स्फोरकपत्र (फ़्लैश कार्ड) पर लिखों |

2.दस विद्यालयोपयोगी वस्तुओं के नाम संस्कृत में सचित्र (स्क्रैप फ़ाइल्)के बीच लिखों।

3.प्रतिदिन माता-पिता एवम् बड़ों को "सुप्रभातं", "सुमध्यानम्","शुभसंध्या"," शुभरात्रि": आदि संस्कृत वाक्यों द्वारा अभिवादन करें।

FRENCH

1. Cover and decorate your French Notebook. (For example paste pictures of famous French food, tourist spots, French Flag etc)

2. Make two bookmarks (Using French Greetings)

3. Make a collage of the Famous French tourist attractions (any 10) (Few lines about each)

4. Take a print- out of outlined Map of France and mark the following places: Paris, Nice, Cannes, Bordeaux, Lille , Toulouse, Lyon

5. On the same map mark 3 Amusement parks.

ART EDUCATION

Warli painting

Q1- See the reference painting below, draw and paint a Warli painting showing village life style of people.



Object drawing

Q2- Make any "Flower Pot " with bunch of flowers in the pot. Use Paint colours, and brush to complete the art work.

LIBRARY

Dear Parent,

The vacation has begun and it's a great time for children to relax and explore the magical world of stories. Reading during the holidays can be both fun and meaningful. Let's motivate our children to read interesting books and folktales from our rich culture and tradition.

This will not only improve their language skills but also help them develop a lifelong love for reading. Stories also teach values, spark imagination and make children more creative.

Some of the suggested readings are:

- Biographies of famous personalities
- Short stories of Sudha Murthy
- Harry Potter Series