



BHAVAN VIDYALAYA, NEW CHANDIGARH
HOLIDAYS' HOMEWORK
SESSION 2024-25
CLASS IX



Dear Parents,

Warm greetings,

First and foremost, we wish to express our gratitude for your ongoing support. Our students have really worked hard throughout the last session and they are looking forward to the pleasures which a summer break brings.

We wanted to take a moment to touch base with you regarding some important aspects to consider during this time. It is crucial to ensure that students have a balance of relaxation and engagement throughout the break. Our students will spend around one and a half month with you and we want you to encourage activities that stimulate their mind, body and creativity. Holiday Homework has been designed keeping in view the same spirit and also on the basis of CBSE guidelines.

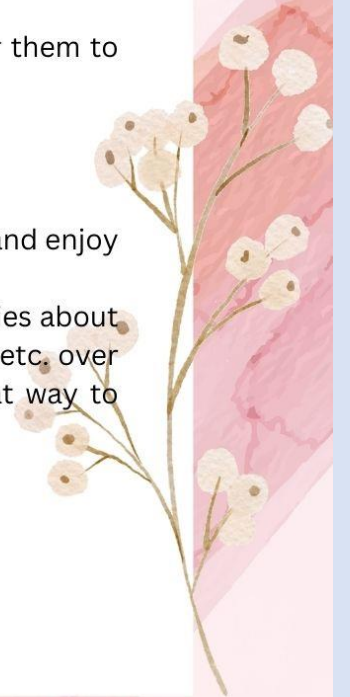
We would like your co-operation in the following areas:

Outdoor Activities:

- Please take them to Kissan Mandi or Green vendors for purchase of vegetables and fruits and explain them how to look for fresh and ripe product.
- Try to go out for a walk at least 2-3 times a week.
- Hiking, biking, swimming or even gardening will be useful for them to connect to the nature.

Family Time:

- Please spend some time looking at old photographs /videos and enjoy the nostalgic trip down the memory lane.
- A short weekend getaway, having a movie night, sharing stories about your childhood, your school, your family trips, your first jobs, etc. over a picnic in the city park, balcony or terrace would be a great way to connect with your child.
- Cherish these moments of togetherness.



Reading:

- Encourage them to read newspapers/books.
- If possible, get membership of local library.
- It helps to improve their reading competency.

Limit Screen Time:

- Engage them in different activities at home, e.g. Allow them to help you in cooking.
- Encourage them to spend some time with grandparents /elderly neighbours.
- Please teach them a few basic domestic chores like washing their own utensils, folding their clothes, washing their clothes, making their bed, maintaining the kitchen garden/garden.

Encourage Journaling:

- The practice of keeping a diary or journal can help them to process emotions and experiences, reduce stress and anxiety.
- It will also come handy when they prepare their portfolio, as required by CBSE.

Let us use this summer break to nurture our children with real knowledge which demands our time and love.

We look forward to welcoming everyone back in the month of July, rested, rejuvenated, and ready for another year of learning and growth.

Hope you will have a great time together!

Warm regards

Bhavan Vidyalaya

New Chandigarh



*Hello
Summer*

BHAVAN VIDYALAYA, NEW CHANDIGARH

VACATION ADVENTURES!

Happy Holidays!

While beating the heat and exploring new places, let's also embark on some exciting learning adventures together.

Inside this booklet, you'll find fun activities to keep your brain buzzing while you relax and recharge.

Let's make this vacation both memorable and meaningful!

Have a fantastic time, and let the adventures begin!



PORTFOLIO



A portfolio is a purposeful collection of student work that exhibits the student's efforts, progress, and achievements in one or more areas. A student portfolio is a collection of student work compiled over time to showcase a learner's progress, skills, and achievements. This can include project work samples, finished assignments, case studies, and self-reflections. The portfolio should be neat and legible, with an emphasis on quality of content, accuracy of information, creative expression, proper sequencing and relevance.

Some of the criteria to be kept in mind while making your Portfolio are:

1. Organisation: Neatness and visual appeal
2. Creativity of work and presentation
3. Originality of work: Plagiarism is strictly prohibited.
4. Evidence of student's learning and growth
5. Identification of specific skills to show improvement over time

HOW TO MAKE YOUR PORTFOLIO?

- Maintain a ring binder to record all the essential activities, achievements, projects, etc.
- The first page should bear the school details, student details like name, class, section and roll number of the child along with the current academic session.
- The binder should be divided into separate sections in the following specified order for all subjects:
 1. English
 2. Hindi
 3. Punjabi
 4. Mathematics
 5. Science
 6. Social Science
 7. Computers
 8. Miscellaneous (Art/Music/Sports/CCA)
- You can separate the sections for each subject by creating Section Divider Sheets for each subject.
- The second page in each section should contain an index (different for each subject) wherein the activities kept in the portfolio are written in a sequence.
- Keep a record of the projects, holidays' homework, assignments, or research work you have completed, along with any acknowledgments or awards received.
- A Certificate of Completion to be made at the end of the portfolio duly signed by the class teacher.



LINK: www.youtube.com/watch?v=aj2vzRuMseA

ENGLISH

ACTIVITY 1

Write a self- composed poem describing Punjab and Andhra Pradesh in about 12 to 16 lines.

- Mention the rhyming scheme, if any.
- Use at least two poetic devices from the choices given (Alliteration, Hyperbole, Metaphor, Simile, Personification). Specify the poetic devices with reference to the poem .
- Give a suitable title.
- You can illustrate the poem with a suitable drawing/sketch.

ACTIVITY 2

Create a crossword puzzle with relevant clues to answer the following requisites:-

5 down and 5 across

- Any one Poet from Punjab and Andhra Pradesh
- Any one Author from Punjab and Andhra Pradesh
- Famous Artwork from Punjab and Andhra Pradesh
- Famous Literary Work from Punjab and Andhra Pradesh (Book Name)
- Sports Personality from Punjab and Andhra Pradesh

ACTIVITY 3

Write a descriptive paragraph describing any one of the following famous personalities of Punjab and any one famous place of Andhra Pradesh.

Person	Place
Kiran Bedi	Tirupati
Yuvraj Singh	Araku Valley

***Page 8 –Write a diary entry of your experience of doing something for the first time.**

ACTIVITY 4

PORTFOLIO ACTIVITY

- Let's contribute towards sustainability by reducing plastic pollution. Use your creativity to design a file folder using a paper covering. Decorate it with natural dyes or hand impressions or any other nature-friendly way.
- A portfolio is a collection of documents that showcase your skills. Use the file folder you have made with paper as your portfolio. Give the title 'Subject Enrichment Portfolio'. Write your name, class & sec (session), roll no, subject and teacher-in charge on the title page.

हिंदी

- दिए गए बिंदुओं के आधार पर पंजाब तथा आंध्रप्रदेश का तुलनात्मक अध्ययन करते हुए चित्र सहित एक आकर्षक विवरणिका (brochure) बनाइए-
(क) रहन-सहन (ख) पर्यटन
(ग) कला व संस्कृति, आभूषण (घ) उसका इतिहास
- किसी हिंदी समाचार-पत्र के संपादकीय पेज से पर्यावरण एवं जल संरक्षण पर आधारित कोई दो गद्यांश, A4 Sheet पर तैयार कीजिए और प्रत्येक गद्यांश में से कम से कम पाँच-पाँच प्रश्न बनाइए।

3. यशपाल की कोई कहानी पढ़ें और उसका सार A4 Sheet में लिखें। यह भी लिखें कि आपने वह कहानी क्यों चुनी।

PUNJABI


1.	ਆਂਧਰਾ ਪ੍ਰਦੇਸ਼ ਦੇ ਕੋਈ ਦੋ ਸੈਰ - ਸਪਾਟੇ ਦੇ ਸਥਾਨ (TWO PLACES OF TOURISM) ਅਤੇ ਪੰਜਾਬ ਦੇ ਕੋਈ ਦੋ ਸੈਰ - ਸਪਾਟੇ ਦੇ ਸਥਾਨ (TWO PLACES OF TOURISM) ਦੀ ਤਸਵੀਰ ਲਗਾ ਕੇ ਉਹਨਾਂ ਬਾਰੇ 6-8 ਵਾਕਾਂ ਵਿੱਚ ਜਾਣਕਾਰੀ ਲਿਖੋ
2.	HAND FAN MAKING BY USING HARD SHEET ਆਓ ਬਿਜਲੀ ਦੀ ਬੱਚਤ ਕਰੀਏ ਅਤੇ ਪੱਖੀਆਂ (ਹੱਥ - ਪੱਖੇ) ਦੀ ਵਰਤੋਂ ਕਰੀਏ। ਪੁਰਾਣੀਆਂ ਕਿਤਾਬਾਂ ਦੀਆਂ ਜਿਲਦਾਂ (ਕਵਰਾਂ) ਦੀ ਵਰਤੋਂ ਕਰਕੇ ਇੱਕ ਹੱਥ ਪੱਖਾ ਬਣਾਓ ਅਤੇ ਇਸਨੂੰ ਪੰਜਾਬ ਜਾਂ ਆਂਧਰਾ ਪ੍ਰਦੇਸ਼ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਲੋਕ ਕਲਾ ਜਿਵੇਂ ਕਲਮਕਾਰੀ, ਫੁਲਕਾਰੀ ਜਾਂ ਮਿਊਰਲ ਚਿੱਤਰਕਾਰੀ ਨਾਲ ਸਜਾਓ। ਤਕਨਾਲੋਜੀ ਦੇ ਆਉਣ ਕਾਰਨ ਹੱਥ - ਪੱਖੀਆਂ ਉੱਪਰ ਪਏ ਪ੍ਰਭਾਵ ਬਾਰੇ ਵੀ ਲਿਖੋ
3.	ਹਰੇ - ਭਰੇ ਖੇਤਾਂ ਦਾ ਚਿੱਤਰ ਬਣਾਓ ਉਸ ਵਿੱਚ ਰੰਗ ਭਰੇ ਅਤੇ ਉਸ ਚਿੱਤਰ ਬਾਰੇ 6-8 ਵਾਕ ਲਿਖੋ ਇਹ ਕੰਮ ਵੀ ਆਪਣੀ ਸਕਰੈਪ ਫਾਇਲ (SCRAP FILE) ਵਿੱਚ ਕਰੋ

MATHEMATICS

Activities:

- Prepare a Project File on the history of Pi (π) and correlate Pi (π) in real life situations.
- Take any three famous monuments from Andhra Pradesh and observe their architecture thoroughly. Observe as to how mathematics is used in their construction. Prepare a project file on it.

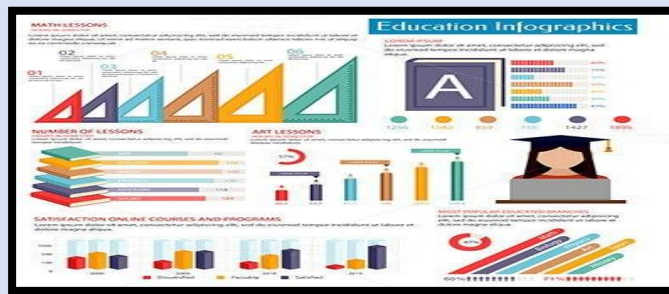
- Environmental Consciousness

Title: Green Math: Calculating carbon 

Objective: To promote environmental awareness and eco-friendly behaviour through mathematical calculations and analysis.

Calculate your carbon footprint using online calculators or guided worksheets. Identify areas where you can reduce your environmental impact, such as transportation, energy consumption, and waste generation.

Design a poster or info graphic including tips for reducing carbon emissions, conserving energy, and minimizing waste. Example is given below.



➤ **ART INTEGRATION**

Mathematical Masterpiece: Artistic Expressions of Mathematics"

Objective: To explore mathematical concepts through artistic expression and creativity.

Choose a mathematical concept or topic that interests you, such as geometry, symmetry, patterns, or fractals. Create an artwork inspired by your chosen mathematical theme using any artistic medium of your choice, such as drawing, painting, collage, sculpture, or digital art. Describe how you incorporated mathematical concepts into your creative process and what inspired your artistic choices.

PROJECT WORK: Write a paragraph (in not more than 100 words) on “RAMANUJAN - The Great Mathematician”. Write the important contributions made by him.

Do the following worksheets in your mathematics notebook:

NUMBER SYSTEM

Q1. If $\sqrt{3} = 1.73$ and $\sqrt{2} = 1.41$ then find the value of $\frac{1}{\sqrt{3}-\sqrt{2}}$

Q2. Find the value of $(1^3 + 2^3 + 3^3)^{\frac{-3}{2}}$

Q3. Insert two rational and irrational numbers between 0.3131... and 0.35555.....

Q4. Simplify: $\sqrt{45} - 3\sqrt{20} + 4\sqrt{5}$

Q5. Find the value of a and b if:

$$\frac{\sqrt{7}-1}{\sqrt{7}+1} - \frac{\sqrt{7}+1}{\sqrt{7}-1} = a+b\sqrt{7}$$

POLYNOMIALS

Q1. Find the coefficient of y^2 in $(y^2 + \frac{1}{y})(y^2 + 5)$

Q2. If $p(x) = x + 3$, then find the value of $p(x) + p(-x)$

Q3. Find the remainder when the polynomial $p(x) = 2x^3 + 3x^2 - 11x - 8$ is divided by $(2x + 1)$ using the remainder theorem.

Q4. Expand $(4a - b + 2c)^2$

Q5. Check whether the polynomial $q(t) = 2t^3 - 9t^2 + t + 12$ is a multiple of $2t - 3$

Q6. Factorize:

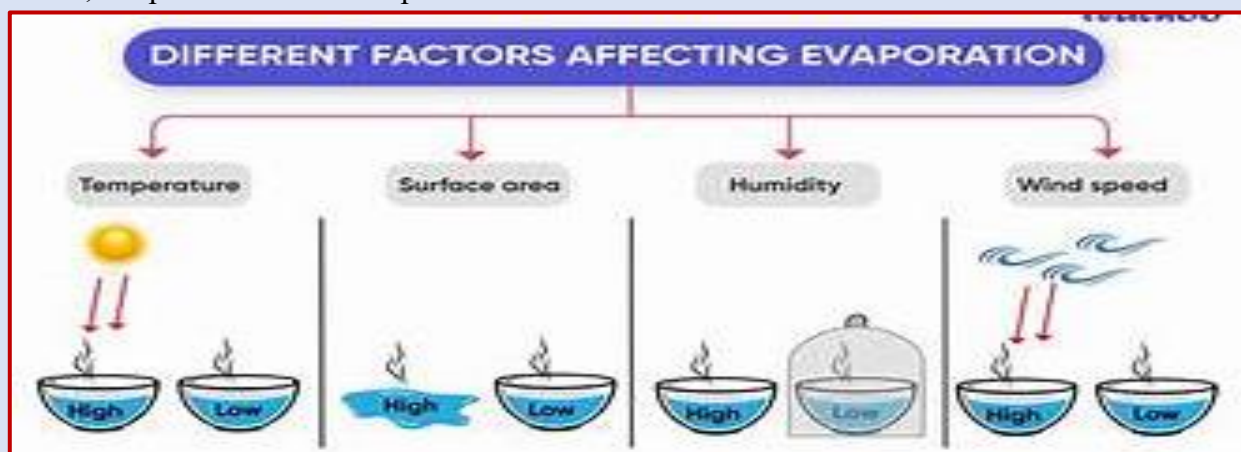
(i) $2x^2 - 7x - 15$

(ii) $x^2 + 9x + 18$

Q7. Factorize using factor theorem: $2x^3 - 7x^2 - 24x + 45$

SCIENCE

ACTIVITY 1: Perform an activity to study the rate of evaporation of water considering the factors of surface area, temperature and wind speed.



OBSERVATION TABLE:

S. No.	CONDITIONS	TIME TAKEN FOR EVAPORATION	INFERENCE
1	In Sunlight (a) Water taken in a cup (b) Water taken in a saucer		
2	In room without fan (a) Water taken in a cup (b) Water taken in a saucer		
3	In room with fan (a) Water taken in a cup (b) Water taken in a saucer		

ACTIVITY 2: Find information on the various scientists who discovered the various cell components (Structure of Cell membrane; Nucleus; Endoplasmic Reticulum; Ribosomes; Golgi Bodies; Lysosome; Mitochondria; Plastids etc.). Now, imagine that you have got a chance to interview any one of them. Frame some interesting questions to understand all aspects of their life and write answers based on the information available and your understanding of their life. Record the same in an interview format on A4 size sheets.

OR

ACTIVITY 2: Select any one of the following substances - Oxygen, Food Molecules or Viruses - and write an interesting story on your 'Journey through a Cell' based on the following three parts:

- How did you enter the cell? Was it your own decision or was there any power that forced you to do it? How did you feel when you entered the cell - frightened or adventurous? What did you see all around?
- What happened to you inside the cell? Whom did you approach first? How did you react to the situation that arose there?
- Wrap up your story by writing your fate inside the cell. Did you remain inside or were you able to come out of it? If yes, how and in what form?

ACTIVITY 3: Take a political map of India. Mark the capital of the state you live in and the capital of Andhra Pradesh on the map. Prepare a travel itinerary by road from one capital city to the other visiting major cities that will come on the way.

- Calculate the distance travelled by you during the trip.
- Now, take a ruler and measure the displacement between the two cities by using the scale of the map.
- What is the relation between distance and displacement? Also, when will the displacement be closest to the distance travelled – if you are travelling by road, by train or by air?

ACTIVITY 4: Andhra Pradesh is known as the Rice Bowl of India, while Punjab mostly grows wheat in the Rabi season and rice in the Kharif season. Compare and contrast the agriculture and animal husbandry practices of Punjab and Andhra Pradesh. Find out about the type of soil found in the two states, the major crops grown including fruits and vegetables and commercial crops, and any unique practices followed in the two states with regard to traditional farming/organic farming/modern farming. Also, find out about the animal husbandry practices followed in the two states.

Present this information along with pictures on A4 sized sheets. Also, write a short note (150-200 words) on how practicing animal husbandry along with agriculture can make farming a more sustainable means of living. Cite examples from the two states mentioned above.

SOCIAL SCIENCE

ACTIVITY 1

Carry out research on the types of forests found in Andhra Pradesh and the tribes of the state. Prepare a PPT of at least 15 slides including the following information-

- Type of forests found in Andhra Pradesh in detail (insert a map showing the kinds of forests in Andhra Pradesh)
- Tribes of Andhra Pradesh and their dependence on forests
- Impact of colonial forest laws on the tribal societies of Andhra Pradesh.

Use sources from Chapter-4 Forest Society and Colonialism of History and Chapter- 5 Natural Vegetation and Wildlife of Geography.

Share the PPT on the following e-mail id-

amandeep@newchd.bhavanchd.com

ACTIVITY 2

You have recently visited the Seshachalam Biosphere Reserve of Andhra Pradesh, the wildlife of the place fascinated you a lot. Write an article for the newspaper describing the biosphere reserve and the importance of such biosphere reserves for the conservation of flora and fauna.

ACTIVITY 3

Conduct research on the farming and non-farming activities, land distribution, types of families, and social and economic life in a village of your choice in Andhra Pradesh. You are required to present your findings in a detailed report format, following the structure provided below:

- a) Introduction
- b) Objective
- c) Methodology
- d) Farming Activities
- e) Non-Farming Activities
- f) Land Distribution
- g) Types of Families
- h) Social Life
- i) Economic Life
- j) Conclusion
- k) References

ACTIVITY 4

- Follow the General Elections
- Make a collage- Using one page (two sides) in your Activity File, giving information about the number of seats. Local and National Parties in the electoral foray, (with party symbols) and winners and the losers, in Andhra Pradesh and Punjab.

ACTIVITY 5

DISASTER MANAGEMENT

• Make a 8 sides (4 pages), hand written project in your Activity File, on what a 15 YEAR OLD should do to protect oneself and the family during / before Disasters like Floods, Cyclones, Earthquakes, and Landslides only. (ANY TWO DISASTERS ONLY)

• **‘Floods and cyclones are major natural disasters in Andhra Pradesh State and have a great impact on loss of property, infrastructure and agriculture’.** Write about any one disaster which affects Andhra Pradesh- it's causes and impact (Source: Chapter 2- Towards safer India Part 2 book. Pdf of the same will be sent in the class group).

You will paste or draw relevant pictures related to the disaster, with proper headings and write about the Disaster.

You will integrate art work to decorate your pages.

COMPUTERS

- (a) Create a scrap file highlighting the success stories of IT and electronics companies thriving in Andhra Pradesh. Include details about national and international companies that have established their presence in the state, and their contributions. Use images, headlines, quotes from Company, Statistics and Figures showcasing the economic impact on the state.
- (b) Make a Chart on the components of worksheet used in Excel. Label each component with brief description.

ART & CRAFT

Integrated Activities

- Draw and colour a view out of the window of your house. (Sheet size A4)
- Draw and colour Verabhadra Temple of Lepakshi, Andhra Pradesh using water colours. (Sheet size A3)
- Draw two different sketches of Folk Dance of Andhra people. (Sheet size A4)



Craft- Design a Greeting Card using Kalamkari Painting.

LIBRARY

Read any one of the following books and conduct detailed research about the author and the time- period in which the book was written. Write an article of about 100-150 words about the same (to be done on A4 size sheets)

