



SHARDA INTERNATIONAL SCHOOL

HOLIDAY HOME WORK

ACADEMIC SESSION (2025-26)

Dear Parents and Students,

Summer holidays are a wonderful opportunity to rest and refresh, but they can also be a time for creativity, curiosity, and continued learning in a fun way. To keep the spirit of learning alive, we have prepared a light and engaging Summer Holiday Homework. These activities are designed to be enjoyable and enriching — encouraging children to explore, observe, and express themselves.

General Instructions for Holiday Homework

1. Time Management

- Plan a daily schedule to balance study, rest, and fun.
- Avoid last-minute rush — divide your homework and complete it in small portions every day.

2. Neatness & Presentation

- Complete all work neatly and legibly.
- Use good quality materials and keep your work organized and well-presented.
- Mention your name, class, and subject on each assignment/project.

3. Creativity & Originality

- Be creative and original in your work. Use your own ideas rather than copying from others or the internet.
- Where possible, support your work with drawings, diagrams, or pictures.

4. Research & Learning

- Use books, educational websites, and resources to complete your work.
- Learn something new while doing your homework — whether it's a new skill, fact, or concept.

5. Parental Involvement

- Take help from parents or grandparents if needed, especially in activities that involve art, craft, or storytelling.
- Share your learning and holiday experiences with them too!

6. Timely Submission

- Ensure all homework and projects are completed and submitted on the given dates after the vacation.
- Late submissions may not be accepted or may affect your grades.

7. Digital Etiquette (If Applicable)

- If any work is to be submitted online, follow the submission format and deadline.
- Ensure your files are properly named and readable.

8. Stay Safe & Healthy

- While completing your work, also take breaks, stay active, eat healthy, and keep a positive routine.

Enjoy your holidays!

Use this time to learn, grow, and most importantly, to relax and have fun.

Warmly ,

Class Teacher

Sharda International School

Submission of work Subject wise :- Class - IX

- **English, Hindi & Maths: - Thursday, 3rd July, 2025.**
- **Science & SST: - Friday, 4th July, 2025.**
- **IT and Art : - Saturday, 5th July, 2025.**

SUBJECT-SOCIAL SCIENCE

NOTE-

Two Projects have been given. These projects are compulsory for all. Students should use pictures, diagrams, data, pie charts, and case study etc. Project should be neat and clean and Presentation should be proper. Hand made diagrams and pictures will be given preference in Project. Students should also write Biodata, Acknowledgement, Index, Introduction, Bibliography, Conclusion and remarks. Students can use pencil colours. Project should be completed in not more than 12 to 15 sheets.

ACTIVITY -1 CBSE-SUBJECTIVE PROJECT-

Prepare a project on the topic **Natural and Manmade** disaster.

Activity-2 CBSE ART INTEGRATED PROJECT

UNDISCOVERED MONUMENTS OF HARYANA

This project must be completed in 12 to 15 pages only-

- **Geographical location of this monument (Map)**
- **Founder of the monument**
- **Time Period of Construction**
- **Reasons for construction**
- **Features of monument**
- **Why it has lost its importance**
- **Efforts taken by state government for its maintenance**

H.W :-3 Find an attachment for questions answers of UT -2 chapters uploaded on e-care. Write them in notebook.

Ch-2 Physical features of India (geo)

Ch-2 Constitutional design (civics)

Ch-2 Human resources (Economics)

SUBJECT:-ENGLISH

- **Submit homework in hand made folder .**

ART INTEGRATED PROJECT

1. As a part of project

Write a descriptive paragraphs on 'Lost Monuments' of Haryana State. Mention its historical relevance, and how it became a lost monument. Paste its picture and make it presentable. (200-250 words)

2. Write any popular folk story from Haryana in 120 - 150 words.
3. Make a poster on anyone of the SDGs and write a paragraph about it .
4. Frame 10 very short questions from PT 1 AND PT2 lessons and write in fair register.
5. Solve exercises from functional grammar for , COMPREHENSION, STORY WRITING, tenses, subject verb agreement, direct/ indirect speech, editing , in grammar register.
6. REVISE AND LEARN ALL THE SYLLABUS DONE SO FAR IN CLASS THOROUGHLY.

SUBJECT:-MATHEMATICS

INSTRUCTIONS:

- USE LOOSE RULED SHEET FOR DOING SOLUTIONS.
 - AVOID USE OF DESIGNER SHEETS
 - DO YOUR WORK NEAT AND CLEAN.
 - WRITE YOUR NAME, CLASS AND ROLL NO. ON THE FIRST SHEET.
1. Find five rational numbers between 1 and 2.
 2. Find five rational numbers between $\frac{3}{5}$ and $\frac{4}{5}$.
 3. Locate $\sqrt{3}$ on the number line.
 4. Find the decimal expansions of $\frac{10}{3}$, $\frac{7}{8}$ and $\frac{1}{7}$.
 5. Find three different irrational numbers between the rational numbers $\frac{5}{7}$ and $\frac{9}{11}$.
 6. Add $2\sqrt{2} + 5\sqrt{3}$ and $\sqrt{2} - 3\sqrt{3}$
 7. Simplify: $(\sqrt{3} + \sqrt{7})(\sqrt{3} - \sqrt{7})$.
 8. Rationalise the denominator of $\frac{1}{[7 + 3\sqrt{3}]}$
 9. Represent $\sqrt{9.3}$ on the number line.
 10. What is the value of $(256)^{0.16} \times (256)^{0.09}$?
 11. Give an example of a monomial and a binomial having degrees of 82 and 99, respectively.
 12. Compute the value of $9x^2 + 4y^2$ if $xy = 6$ and $3x + 2y = 12$.
 13. Find the value of the polynomial $5x - 4x^2 + 3$ at $x = 2$ and $x = -1$.
 14. Calculate the perimeter of a rectangle whose area is $25x^2 - 35x + 12$.
 15. Find the value of $x^3 + y^3 + z^3 - 3xyz$ if $x^2 + y^2 + z^2 = 83$ and $x + y + z = 15$
 16. Find the values of a and b so that $(2x^3 + ax^2 + x + b)$ has $(x + 2)$ and $(2x - 1)$ as factors.
 17. Factorise $x^2 - 1 - 2a - a^2$.
 18. Plot the following points and check whether they are collinear or not: (1, 3), (-1, -1), (-2, -3)
 19. Write the answer to each of the following questions:
 - (i) What is the name of the horizontal and the vertical lines drawn to determine the position of any point in the Cartesian plane?

(ii) What is the name of each part of the plane formed by these two lines?

(iii) Write the name of the point where these two lines intersect.

20. Points A (5, 3), B (−2, 3) and D (5, −4) are three vertices of a square ABCD. Plot these points on a graph paper and hence find the coordinates of the vertex C.

21. Find 4 solutions of the given equations:

(i) $3x + 3 = 15$

(ii) $2y + 7 = 19$

22. Plot the following points and write the name of the figure obtained by joining them in order: P(−3, 2), Q (−7, −3), R (6, −3), S (2, 2)

23. Write the coordinates of the vertices of a rectangle whose length and breadth are 5 and 3 units respectively, one vertex is at the origin, the longer side lies on the x-axis, and one of the vertices lies in the third quadrant.

24. Express the following linear equations in the form $ax + by + c = 0$ and indicate the values of a, b and c in each case:

(i) $x - y/5 - 10 = 0$

(ii) $-2x + 3y = 6$

(iii) $y - 2 = 0$

25. Find the value of k, if $x = 2$, $y = 1$ is a solution of the equation $2x + 3y = k$.

26. If the point (3, 4) lies on the graph of the equation $3y = ax + 7$, find the value of a.

27. The taxi fare in a city is as follows: For the first kilometre, the fare is ₹ 8 and for the subsequent distance it is ₹5 per km. Taking the distance covered as x km and total fare as ₹ y, write a linear equation for this information, and draw its graph.

28. The cost of a ball pen is Rs 5, less than half of the cost of a fountain pen. Write this statement as a linear equation in two variables.

29. Check which of the following are solutions of the equation $2x - y = 6$ and which are not:

(i) (3 , 0) (ii) (0 , 6) (iii) (2 , -2) (iv) (√3, 0) (v) (1/2 , -5)

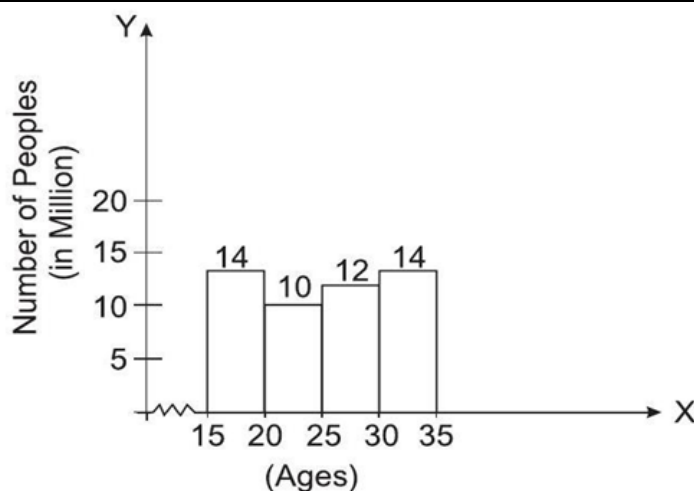
30. If $x = -1$, $y = 2$ is a solution of the equation $3x + 4y = k$, find the value of k.

31. Give the equations of two lines passing through (3, 12). How many more such lines are there, and why?

32. Find the area of a triangle whose sides are respectively 150 cm, 120 cm and 200 cm.

33. Find the area of a triangle whose sides are respectively 9 cm, 12 cm and 15 cm.
34. Find the area of a triangle two sides of which are 18 cm and 10 cm and the perimeter is 42 cm.
35. The perimeter of a triangular field is 540 m, and its sides are in the ratio 25:17:12. Find the area of the triangle.
36. : Find the area of a triangle whose base and altitude are 5 cm and 4 cm, respectively.
37. The area of an equilateral triangle is $16\sqrt{3} \text{ m}^2$. Find its perimeter.
38. Find the cost of leveling a ground in the form of a triangle with sides 16m , 12m, 20 m at Rs.4 per sq.meter.
39. The perimeter of an isosceles triangle is 32 cm . The ratio if the equal side to its base is 32. Find the area of the triangle.
40. The sides of a triangular field are 41m,40 m and 9m . Find the number of flower beds that can be prepared in the field, if each flower bed needs 2 900 cm space.
41. India began its vaccination programmed on 16th January 2021. Within one year a massive population above 18 yr vaccinated upto 80% with double dose and 70% of children from age group 15 to 18 by taking 1st dose. This is all possible in short span of time due to combine efforts of governments and the citizens. The data collected by the government of vaccinated population is shown below.

Ages	15-20	20-25	25-30	30-35
Number of peoples (in million)	14	10	12	14



On the basis of the above information, solve the following questions.

Q 1. Upper limit of the fourth class interval is:

a. 30

- b. 35
- c. 35.5
- d. 30.5

Q 2. The class mark of 3rd class interval is:

- a. 27
- b. 27.5
- c. 28
- d. 28.5

Q 3. The number of people having ages more than 25 is (in million):

- a. 25
- b. 26
- c. 24
- d. 23

Q 4. The number of peoples having maximum ages of 30 is (in million):

- a. 36
- b. 34
- c. 33
- d. 38

Q 5. In a histogram, the class intervals on the groups are taken along:

- a. X-axis
- b. Y-axis
- c. Both a and b.
- d. in between X and Y axes

42. A group of students decided to make a project on Statistics. They are collecting the heights (in cm) of their 51 girls of Class IX-A, B and C of their school. After collecting the data, they arranged the data in the following frequency distribution table form:

Height (in cm)	Number of girls
135- 140	4
140- 145	7
145- 150	18
150- 155	11
155- 160	6
160- 165	5

Based on the information, answer the following questions:

(a) The class interval with highest frequency is :

- (i) 145-150
- (ii) 150-155
- (iii) 140-145
- (iv) 155-160

(b) What is the width of the class?

- (i) 10
- (ii) 15
- (iii) 5
- (iv) none of these

(c) How many students of the height 150 cm and below are there?

- (i) 40
- (ii) 29

(iii) 18

(iv) 22

(d) How many students of the height 145 cm and above are there?

(i) 40

(ii) 29

(iii) 18

(iv) 22

(e) How many students of the height more than 145 cm but less than 155 are there?

(i) 40

(ii) 29

(iii) 18

(iv) 22

43. Rajan planned to celebrate his daughter's birthday in a small orphanage centre. He bought apples to give to children and adults working there. Rajan donated 3 apples to each children and 4 apples to each adult working there along with birthday cake. He distributed 100 total apples.

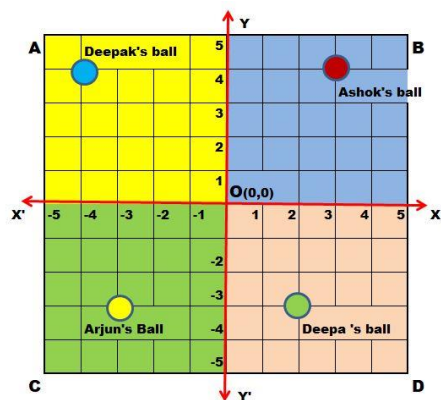
(i) How to represent the above situation in linear equations in two variables by taking the

number of children as 'x' and the number of adults as 'y'?

(ii) If the number of children is 20, then find the number of adults

(iii) Find the value of b, if $x = 9$, $y = 10$ is a solution of the equation $3x + 5y = 11b$.

44. There is a square park ABCD in the middle of Saket colony in Delhi. Four children Deepak, Ashok, Arjun and Deepa went to play with their balls. The colour of the ball of Ashok, Deepak, Arjun and Deepa are red, blue, yellow and green respectively. All four children roll their ball from centre point O in the direction of XOY, X'OY, X'OY' and XOY'. Their balls stopped as shown in the above image.



Answer the following questions:

1. What are the coordinates of the ball of Ashok?

- a. (4, 3) b. (3, 4) c. (4, 4) d. (3, 3)

2. What are the coordinates of the ball of Deepa?

- a. (2, -3) b. (3, 2) c. (2, 3) d. (2, 2)

3. What the line XOY' is called?

- a. y-axis b. ordinate c. x-axis d. origin

4. What the point O (0,0) is called?

- a. y-axis b. ordinate c. x-axis d. origin

5. What is the ordinate of the ball of Arjun?

- a. -3 b. 3 c. 4 d. 1

45. The weights of newborn babies (in kg.) are recorded to maintain the health report cards in Apollo hospital on regular basis. On a particular day the weights of newborn

recorded are as follows:

3.1, 3.0, 2.9, 2.9, 2.8, 2.8, 2.7, 2.7, 2.6, 2.5, 2.5, 2.4, 2.3, 2.2, 2.1

1. Determine the range.
 1. 1.0 Kg
 2. 2.1 Kg
 3. 2.7 Kg
 4. 2.0 kg
2. How many babies were born on that day?
 1. 11
 2. 15
 3. 12
 4. 16
3. How many babies weigh below 2.5 kg?
 1. 3
 2. 4
 3. 5
 4. 6
4. How many babies weigh more than 2.8 kg?
 1. 1
 2. 2
 3. 3
 4. 4
5. How many babies weigh 2.8 kg?
 1. 1
 2. 2
 3. 3
 4. 4

- Prepare a ART INTEGRATED PROJECT on UNDISCOVERED MONUMENTS OF HARYANA (ANY ONE) .

Do The following activities in lab manual.

- Activity 1- representation of irrational number on a number line.
- Activity 2- Factorisation of quadratic polynomial by paper cutting and pasting method.
- Activity 3- to obtained a mirror image of geometrical figure with x - axis and y-axis.

SUBJECT:-SCIENCE

OUTDOOR ACTIVITY: Indulge yourself in some physical activity like Yoga and deep breathing exercises in the morning. Add protein rich food in your meal to boost your immunity.

TASK - 1

Revise the explained chapters with all solved questions-answers given in the reference book.

TASK - 2

Draw the following diagrams in your Question Bank register.

- (i) Distance – Time graph for all the cases
- (ii) Velocity – Time graph for all the cases

- (iii) Sublimation activity
- (iv) Nucleus
- (v) Bacteria cell
- (vi) Golgi Body
- (vii) Endoplasmic reticulum
- (viii) Chloroplast
- (ix) Mitochondria
- (x) Golgi body

TASK - 3

Make a model on following topics from eco-friendly material available at home:

- (i) Roll No. (1 – 5): Structure of atom
- (ii) Roll No. (6 – 10): Reflection of sound
- (iii) Roll No. (11– 15): Compound Microscope
- (iv) Roll No. (16 – 19): Balloon Car based on Newton's third law of motion.
- (v) Roll No. (20 - 22): Plant cell

TASK – 4

Written Work

- Do short and long ques/ans given on pg. no. 2/56, 2/57 of chemistry reference book in H.W file and write the notes of chapter 2 from the attached document in C.W file.
- Write activity 1 and activity 2 in your science activity file from the attached document uploaded on e care.
- Solve PT -1 Papers (Set 1 & 2) In Question bank register.

TASK – 5

PRESENTATION:

Prepare a presentation on chapter – 2 (Is matter around us pure) with the help of activities & PPT.

TASK – 6

Art Integrated Project: To explore any 2 undiscovered monument of your state and prepare a project report on the following bases:

- Study the architectural design of domes, pillars and walls using centre of gravity, load distribution and friction.
- Explore the flora and fauna near to these monuments
- What is composition and chemical properties of the materials (lime, sand, natural pigment etc.) used to make these monuments.
- Study the effects of oxidation, acid rain and pollutants on these monuments.
- Collect the data in form of images/ Research work done from the newspaper, magazines and articles.

(Art integrated project) Instructions:

Use colored A4 size colored sheets to write contents.

Begin with acknowledgement and brief introduction about history of these monuments on separate sheets.

Draw table and paste pictures related to the topics on the plane side of the assignment colored sheet.

Assemble all the sheets in sequence in a handmade folder.

विषय – हिन्दी

- निर्देश: सम्पूर्ण लेखन कार्य रंगीन, सादा, ए 4 शीट पर किया जाएगा ।
- निर्देशानुसार एवं प्रश्न के अनुरूप सचित्र प्रस्तुतीकरण अनिवार्य है ।
- त्रुटिरहित लेखन एवं निर्धारित समय सीमा को ध्यान में रखते हुए संपूर्ण हिन्दी गृह कार्य को पूर्ण मनोयोग एवं एकाग्रता से संपन्न करे ।

1. दो बैलों की कथा का सार अपने शब्दों में लिखिए ।
2. कबीर के समकालीन किन्हीं दो अन्य प्रसिद्ध भक्तिकालीन कवियों की रचनाओं का संकलन करके एक सचित्र परियोजना कार्य तैयार कीजिए ।
3. ल्हासा की ओर पाठ यात्रा वृत्तांत के समान किसी अन्य यात्रा वृत्तांत या कहानी का सचित्र वर्णन कीजिए ।
4. किन्हीं पांच उपसर्ग और प्रत्यय को समाहित करते हुए “ हमारे राष्ट्र का भविष्य क्या होगा...” विषय पर एक सारगर्भित अनुच्छेद लिखें ।
5. दो मित्रों के मध्य अपने ग्रीष्मावकाश बिताने की योजना को संवाद के रूप में लिखिए ।
6. प्रेमचंद के व्यक्तित्व और कृतित्व का परिचय देते हुए उनकी किन्हीं अन्य दो रचनाओं को संकलित करते हुए सचित्र परियोजना कार्य बनाएँ ।
7. एक स्वरचित कहानी लिखिए ।
8. अपठित गद्यांश प्रश्न 1-5 व्याकरण पुस्तिका में हल करें ।
9. कार्य पत्रिका व्याकरण पुस्तिका में हल करें ।

कला एकीकृत परियोजना कार्य

हरियाणा की अज्ञात स्मारके

SUBJECT:-COMPUTER

Make a file or PowerPoint presentation on “Cyber Safety and Security for Teenagers” covering:

- Do's and Don'ts while using the internet
 - How to create a strong password?
 - Examples of online frauds and how to avoid them
- Write a short paragraph (100 words) in writer on how you manage your time during holidays.
- Prepare a poster on "Importance of Good Communication in the Workplace".

SUBJECT:-DRAWING

Draw 3 birds, 4 animals, 4 sketching in sketch file. Composition
Cityscapes draw in sketch file.

Craft--T-shirt Tot bag. Materials-- old t-shirt, scissors, (no sewing
needed) skill--up cycling fabric craft

Happy Holidays and Best Wishes!