

NANKANA SAHIB PUBLIC SCHOOL GILL PARK LUDHIANA
HOLIDAYS HOMEWORK 2026-27
CLASS - X

SUBJECT- MATHEMATICS

1. If two positive integers a and b are written as $a = x^3y^2$ and $b = xy^3$, where x and y are prime numbers, then find LCM(a,b) and HCF(a,b).
2. Find the zeroes of $p(x) = x^2 - x - 6$.
3. If α and β are the zeroes of polynomial $f(x)=px^2-2x+3p$ and $\alpha+\beta-\alpha\beta=0$ then find the value of p .
4. Check whether the pair of linear equations $5x-15y=8$ and $3x-9y=24/5$ are consistent or not.
5. If α and β are two zeroes of the polynomial $25p^2-15p+2$, find a quadratic polynomial whose zeroes are $1/3\alpha$ and $1/3\beta$.
6. Prove that $\sqrt{3} - \sqrt{5}$ is an irrational number.
7. Show that $(2+3\sqrt{2})/5$ is an irrational number.
8. Draw the graphs of $2x-y=1$ and $3x+2y=12$. Determine the vertices of the triangle formed by the lines representing these equations and the x -axis. Shade the triangle so formed and find its area.
9. The sum of the squares of two natural numbers is 29. If the second number is one more than twice the first number, find the numbers.
10. A farmer prepares a rectangular vegetable garden of area 180 m^2 . With 39 m of barbed wire, he can fence the three sides of the garden leaving one of the longer sides unfenced. Find the dimensions of the garden.

11. Daily wages of 110 workers, obtained in a survey, are tabulated below:

Daily wages	100–120	120–140	140–160	160–180	180–200	200–220	220–240
No. of workers	10	15	20	22	18	12	13

12. If m and n are the zeroes of the polynomial $f(x)=2x^2-8x-8$, then find the value of m^2+n^2 .
13. A train travels a distance of 480 km at a uniform speed. If the speed had been 8 km/h less, then it would have taken 3 hours more to cover the same distance. Find the original speed of the train.
14. Himabshi can row her boat at a speed of 5 km/h in still water. If she takes 1 hour more to row the boat 5.25 km upstream than to return downstream, find the speed of the boat in upstream.

15. Find the value of K for which equations $3x - y + 8 = 0$ and $6x - Ky = -16$ represent coincident lines.

16. Find the least number that is divisible by all the natural numbers from 1 to 10 (both inclusive).

Vaibhav installed a fence around a circular field, with the total cost amounting to Rs. 6000 at a rate of Rs. 30 per m. He now plans to plough the field. Based on the information answer the following questions: (i) What is the perimeter of the field? (ii) What is the radius of the field? (iii) What is the area of the field? (iv) Find the cost of ploughing the field at the rate of Rs. 0.50 per m^2 .

17. Draw the graphs of the equations $x=3$, $x=5$ and $2x - y - 4 = 0$. Also find the area of the quadrilateral formed by the lines and the x-axis.

18. Solve the following system of equations graphically: $x - 2y = 3$ and $3x - 8y = 7$.

19. The length of 40 leaves in a plant are measured correctly to the nearest millimeter and the data obtained is represented as in the following table:

Length (mm)	118–126	127–135	136–144	145–153	154–162	163–171	172–180
No. of leaves	3	5	9	12	5	4	2

20. Find the difference of the upper limit of the median class and lower limit of the modal class from the following data.

Class	65–85	85–105	105–125	125–145	145–165	165–185	185–205
f	4	5	13	20	14	7	4

21. Find the mean and mode of the following data. Also find its median by using empirical relation.

Marks	Below 10	Below 20	Below 30	Below 40	Below 50	Below 60	Below 70	Below 80	Below 90	Below 100
No. of students	12	22	35	50	70	86	97	104	109	115

22. Find the roots of quadratic equation $(x-1)^2 = 16$.

23. If the roots of quadratic equation $\sqrt{3}x^2 - Kx + 2\sqrt{3} = 0$ are real and equal then find the value of K.

24. Find the length of the plank that can be used to measure the lengths 4 m 20 cm and 5 m 4 cm exactly, in the least time.

25. The mean and median of a frequency distribution are 43 and 43.4 respectively. Find the mode of the distribution.

26. If α and β are the zeroes of quadratic polynomial $px^2 + qx + r$, then find the value of $\alpha^3\beta + \beta^3\alpha$.

27. Aarush bought 2 pencils and 3 chocolates for Rs. 11 and Tanis bought 1 pencil and 2 chocolates for Rs. 7 from the same shop. Represent this situation in the form of a pair of linear equations. Find the price of 1 pencil and 1 chocolate graphically.

28. A person on a tour has Rs. 4200 for expenses. If he extends his tour for 3 days, he has to

cut down his daily expenses by Rs. 70. Find the original duration of the tour.

The area of a right-angled triangle is 600 cm^2 . If the base of the triangle exceeds the altitude by 10 cm, find all the three dimensions of the triangle.

29. If $ax + by = a^2 - b^2$ and $bx + ay = 0$ then find the value of $x + y$.

30. Find HCF and LCM of 30, 72 and 432.

31. Three bells ring at intervals 4, 7 and 14 minutes. If all three ring at 6 a.m., when will they ring together again after that time?

32. If the lengths of diagonals of a rhombus are 10 cm and 24 cm, then find the perimeter of the rhombus.

33. If one of the zeroes of a quadratic polynomial $(K-1)x^2 + Kx + 1$ is -3 then find the value of K .

34. There are two sections A and B of grade X. There are 28 students in section A and 30 students in section B. What is the minimum number of books you will acquire for the class library so that they can be distributed equally among students of section A or section B?

35. Represent the following pair of linear equations graphically and hence comment on the condition of consistency of this pair: $x - 5y = 6$ and $2x - 10y = 12$.

36. In a class test, the sum of Anamika's marks obtained in Maths and Science is 30. Had she got 2 marks more in Maths and 3 marks less in Science the product of the marks would have been 210. Find the marks she got in the two subjects.

37. The length of hypotenuse (in cm) of a right-angled triangle is 6 cm more than twice the length of its shortest side. If the length of its third side is 6 cm less than thrice the length of its shortest side, find the dimensions of the triangle.

38. If $17x - 19y = 53$ and $19x - 17y = 55$, then find the value of $(x + y)$.

39. A father is three times as old as his son. In 12 years' time, he will be twice as old as his son. Find the sum of the present ages of the father and the son.

40. If the roots of the quadratic equation $(a^2 + b^2)x^2 - 2(ac + bd)x + (c^2 + d^2) = 0$ are equal, prove that $ad = bc$.

41. Find the value of p for which one zero of the quadratic polynomial $px^2 - 14x + 8$ is 6 times the other.

42. Solve for x : $(x-3)/(x-4) + (x-5)/(x-6) = 10/3$, $x \neq 4, 6$.

43. Solve for x : $1/(x+1) + 2/(x+2) = 4/(x+4)$, $x \neq -1, -2, -4$.

44. If the roots of quadratic equation $(c^2 - ab)x^2 - 2(a^2 - bc)x + b^2 - ac = 0$ are equal, then show that $a = 0$ or $a^3 + b^3 + c^3 = 3abc$.

45. Solve for x : $1/a + 1/b + 1/x = 1/(a+b+x)$.

If the median of the data is 32.5, find the value of x and y .

C.I.	0-10	10-20	20-30	30-40	40-50	50-60	60-70	Total
f	x	5	9	12	y	3	2	40

46. The numerator of a fraction is 3 less than its denominator. If 2 is added to both the numerator and the denominator, then the sum of new fraction and original fraction is $29/20$. Find the original fraction.

47. If one zero of the polynomial $ax^2 + bx + c$ is triple the other, then show that $3b^2 = 16ac$.

SUBJECT - ENGLISH

Important Note:- Holidays Homework must be done on a separate notebook.

1. Write **Literary** or **Poetic Devices** used in the poems done so far.
2. Read all the Chapters and Poems done till May.
3. **Frame questions** and write **Answer :-05 long** (100-120 words) , **20 Very Short** (15-20 words) answer type questions, **20 Short answer**(30-40 words) **and 20 MCQ'S** of Chapters and poems done till date.
4. Draw **Chart** Or make **PPT** on the following topics (A4sheet - any two)
Tenses, Determiners , Modals and Subject -Verb Concord
5. Write any Two Formal **Letters**, Two **Applications** to the school Principal and Two **Articles** based on first four units of MCB .

Note:- Complete all the pending work of English Communicative, Main Course Book (Unit 1 to 4) and Work Book and also make PPT from each Unit of MCB.

6. PORTFOLIO (mandatory for all students)

Every student will make his or her Portfolio having following details. (Mandatory for all the students)

Prepare the Portfolio in following way in separate file :

•Page 1

Write your Name and also paste your passport size photo in school uniform.

•Page 2

Information about myself

DATE OF BIRTH , CLASS AND SECTION. ROLL NUMBER , SCHOOL NAME ,HEIGHT , Scholar I'd, Blood group , AADHAR NUMBER and Your Achievements if any.

•Page 3

Information about Family

MOTHER'S NAME ,FATHER'S NAME ,Contact number, Number of persons in family , Siblings, Home Address

•Page 4

How Much I Know about myself

WHAT I LIKE, WHAT I DISLIKE ,MY STRENGTH ,MY WEAKNESSES ,MY FAVORITE SPORTS ,MY HOBBIES, MY AIM IN LIFE, WHAT MAKES ME FEEL FEARFUL, MY BEST FRIEND

•Page 5

My Creative Mind

Write any one Poem/article/ Story /Jokes for School Magazine and Monthly News Letter

•Page 6

Which story/ poem or Drama I liked the most in English Communicative and why? What message it gives or how it inspires me?

(Write two pages on it)

•Page 7

Make a poster on any of the following topics and attach it in the same file.

Drug Addiction/ Pollution/ Water Scarcity/ Environment

•Last page 8

Signature of the student.

Signature of the teacher

7. Prepare one Minute Speech on Any One of the given topics for ASL (Assessment of Listening and Speaking)

1. Cyberbullying
2. Artificial Intelligence*: Will it replace human beings?
3. Privacy in the digital age*: Do we have any left
4. Space exploration*: Waste of money or necessity?
5. Climate change*: Whose responsibility is it ?
6. Deforestation* and its effects.
7. Impending disaster due to Third world war.
8. Fuel Crisis- impact on petrol /diesel vehicles

विषय -हिंदी

👉 पोर्टफोलियो (Portfolio) File तैयार कीजिए।

👉 Newsletter ke liye स्वरचित कविता/ कहानी लिखिए।

👉 HINDI ASSIGNMENT हल कीजिए।

👉 Hindi PT-1 को हल कीजिये

👉 नीचे दी गई वर्ग पहली में से मुहावरे ढूंढ कर उनके अर्थ लिखिए (कोई बीस)? पंजाब और उड़ीसा के खानपान को अलग-अलग दर्शाते हुए एक PPT बनाइए।

ख	ह	प	न	क	ज	म	अं	इ	ज	प
फ	च	अ	चो	ओ	प	इ	ग	इ	ल	डी
बी	टी	स	र	डी	क	ग	अं	न	घो	र
म	ल	क	चो	बी	म	डी	ग	म	ड़े	ग
इ	प	य	र	स	न	ग	खि	ओ	बे	क
ज	घी	ता	मौ	बा	ल	बा	ल	ब	च	ना
उ	के	च	से	डी	ग	टी	जा	उ	क	लो
क	दी	अ	रे	व	आँ	न	ना	र	र	हे
च	ए	ड	भा	टी	खों	व	ग	स	सो	के
न	ज	च	ई	द	का	चाँ	द	हो	ना	च
अं	ला	न	ट	कि	ता	बी	की	ड़ा	न	ने
धो	ना	डा	से	इ	रा	न	ग	ना	ल	च
में	क	ल	ई	खु	ल	ना	ल	क	क	बा
का		ना	ट	न	ज	र	फ	में	म	ना
ना	च	ल	ब	स	ना	ग	य	द	र	श्री
रा	टी	इ	जा	क	क	द	ओ	म	क	ग
जा	क	ल	ना	ल	र	ल	स	क	स	णे
गा	ग	र	में	सा	ग	र	भ	र	ना	श
र	क	स	व्	बी	ड	बी	ह	ना	ल	क
टि	ल	प	सी	ज	ना	ज	म	न	बी	र

(Art integrated activity)

NOTE-

👉 DO ASSIGNMENT & PT-1 SOLUTIONS IN YOUR HINDI FAIR NOTEBOOK

👉 Write स्वरचित कविता/कहानी on A4 size sheet. Mention your Name & Class with section

👉 प्रत्येक विद्यार्थी को अपनी पोर्टफोलियो फाइल बनानी है। उससे संबंधित PDF भेजी जाएगी। आप सभी को उसका PRINT निकलवा कर उसमें पूछी गयी जानकारी लिखनी है। छुट्टियों के बाद पोर्टफोलियो फाइल अपनी विषय अध्यापिका को SUBMIT करवानी है।

SUBJECT - PUNJABI

1. ਪੰਜਾਬ ਅਤੇ ਉੜੀਸਾ ਦੀ ਤੁਲਨਾ ਕਰਦੇ ਹੋਏ ਇੱਕ ਪ੍ਰੋਜੈਕਟ ਫਾਈਲ ਤਿਆਰ ਕਰੋ :-

• ਲੋਕ- ਕਵੀ ਅਤੇ ਲੋਕ ਨਾਚ

• ਖਾਣ -ਪੀਣ

• ਭੂਗੋਲਿਕ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਤੇ ਉਦਯੋਗਿਕ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ

2. ਕਹਾਣੀ -ਭਾਗ (ਕੁਲਫੀ ਤੇ ਅੰਗ -ਸੰਗ)ਅਤੇ ਵਾਰਤਕ ਭਾਗ(ਬੋਲੀ ਤੇ ਘਰ ਦਾ ਪਿਆਰ) ਦੇ ਵਿੱਚੋਂ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨਾਂ ਨੂੰ ਆਪਣੀ ਪੱਕੀ ਕਾਪੀ ਉੱਤੇ ਲਿਖੋ।

3. ਹੇਠ ਦਿੱਤੇ ਪੰਜ ਵਿਸ਼ਿਆਂ 'ਤੇ ਇੱਕ- ਇੱਕ ਲੇਖ ਲਿਖੋ।

• ਗੁਰੂ ਸਾਹਿਬਾਨਾਂ ਨਾਲ ਸੰਬੰਧਿਤ • ਸਮਾਜਿਕ ਬੁਰਾਈਆਂ ਨਾਲ ਸੰਬੰਧਿਤ • ਤਕਨਾਲੋਜੀ ਨਾਲ ਸੰਬੰਧਿਤ • ਮੇਲੇ ਅਤੇ ਤਿਉਹਾਰ • ਦੇਸ਼ -ਭਗਤਾਂ ਨਾਲ ਸੰਬੰਧਿਤ

4. ਬਿਨੈ -ਪੱਤਰ ਅਤੇ ਨਿੱਜੀ- ਪੱਤਰ ਦੋਨਾਂ ਵਿਸ਼ਿਆਂ ਉੱਪਰ ਕੋਈ ਦੋ -ਦੋ ਪੱਤਰ ਲਿਖੋ।

5. ਕਿਸੇ ਵੀ ਇੱਕ ਵਿਸ਼ੇ ਉੱਪਰ ਸਵੈ ਰਚਨਾ ਲਿਖੋ।(ਕਹਾਣੀ, ਅਸਲ ਜੀਵਨ ਵਿੱਚ ਵਾਪਰੀ ਕੋਈ ਘਟਨਾ, ਕਵਿਤਾ, ਚੁਟਕਲੇ, ਕੋਈ ਸੰਦੇਸ਼, ਵਿਚਾਰ, ਗੀਤ ਆਦਿ)

6. ਅਪ੍ਰੈਲ ਅਤੇ ਮਈ ਮਹੀਨੇ ਵਿੱਚ ਕਰਵਾਏ ਪਾਠ- ਪੁਸਤਕ ਅਤੇ ਵਿਆਕਰਨ ਦੇ ਸਿਲੇਬਸ ਦੀ ਦੁਹਰਾਈ ਕਰੋ।

7. ਅਸਾਈਨਮੈਂਟ ਪੱਕੀ ਕਾਪੀ ਉੱਤੇ ਹੱਲ ਕਰੋ

*** ਅਤਿ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ**

1. ਗੁਰਮਤਿ ਕਾਵਿ ਕਿਸ ਪ੍ਰਭਾਵ ਵਾਲੀ ਕਾਵਿ -ਧਾਰਾ ਹੈ?
2. 'ਗੁਰ ਤੁਠੇ' ਸ਼ਬਦ ਤੋਂ ਕੀ ਭਾਵ ਹੈ?
3. ਬਿਰਧ ਬੀਬੀ ਦਾ ਪਿੱਛਾ ਫੇਲਣ ਤੇ ਕੀ ਮਾਲੂਮ ਹੋਇਆ?
4. ਜਿੰਦਗੀ ਦੀ ਕਾਮਯਾਬੀ ਲਈ ਕਿਹੜੀ ਕੁੰਜੀ ਹੈ?
5. ਜਿਹੜੇ ਬੱਚਿਆਂ ਦੇ ਜੀਵਨ ਦਾ ਚੌਖਾ ਹਿੱਸਾ ਮਾਂ, ਭੈਣ, ਭਰਾ ਤੋਂ ਬਿਨਾਂ ਕੱਟਦਾ ਹੈ ਉਹ ਕਿਸ ਚੀਜ਼ ਤੋਂ ਵਾਂਝੇ ਰਹਿ ਜਾਂਦੇ ਹਨ?
6. ਕਿਸ ਨੂੰ ਸੋਨੇ ਦਾ ਤਿਣਕਾ ਆਖਿਆ ਗਿਆ ਹੈ?
7. ਪ੍ਰਿੰਸੀਪਲ ਤੇਜਾ ਸਿੰਘ ਕਿਸ ਦਿਨ ਆਪਣੇ ਪਿੰਡ ਰਾਵਲਪਿੰਡੀ ਜਾਂਦਾ ਸੀ?
8. 'ਪ੍ਰੀਤਲੜੀ' ਮਾਸਿਕ ਪੱਤਰ ਕਿਸਨੇ ਸ਼ੁਰੂ ਕੀਤਾ?
9. ਬੋਲੀ ਨੂੰ ਅਮੀਰ ਬਣਾਉਣ ਲਈ ਸ਼ਬਦ ਕਿੰਨਾ -ਕਿੰਨਾ ਤੋਂ ਸਿੱਖਣੇ ਚਾਹੀਦੇ ਹਨ?
10. ਕਰਤਾਰ ਸਿੰਘ ਕਿਸ ਦੀ ਹੱਟੀ ਵਿੱਚ ਨਸਵਾਰ ਲੈਂਦਾ ਸੀ?
11. ਕਾਕੇ ਦੇ ਪਿਤਾ ਨੇ ਕਿੰਨੇ ਪੈਸੇ ਉਧਾਰ ਲਏ ਸਨ?
12. ਭੂਆ ਦੀ ਕੁੜੀ ਦੇ ਵਿਆਹ ਵੇਲੇ ਕਿੰਨੀ ਜ਼ਮੀਨ ਗਹਿਣੇ ਰੱਖੀ ਗਈ ਸੀ?
13. ਔਰੰਗਜ਼ੇਬ ਦੇ ਪੱਕੇ ਇਰਾਦੇ ਬਾਰੇ ਅਸਦ ਖਾਨ ਕੀ ਕਹਿੰਦਾ ਹੈ?
14. ਕੁਲਫੀ ਕਹਾਣੀ ਅਨੁਸਾਰ ਕੌਣ ਇਕੱਠੇ ਨਹੀਂ ਹੋ ਸਕਦੇ?
15. ਅਣਬੋਲਿਆ ਮਨੁੱਖ ਕਿਹੋ ਜਿਹਾ ਹੁੰਦਾ ਹੈ?

***ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ**

1. 'ਭੰਡੇ ਹੀ ਭੰਡ ਉਪਜੇ ਭੰਡੇ ਬਾਝ ਨ ਕੋਇ' ਕਾਵਿ ਤੁਕ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ।
2. ' ਘਰ ਦੇ ਪਿਆਰ' ਲੇਖ ਤੇ ਤੁਹਾਨੂੰ ਕੀ ਸਿੱਖਣ ਨੂੰ ਮਿਲਿਆ? ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ।
3. ਬੋਲੀ ਲੇਖ ਅਨੁਸਾਰ ਤਜਰਬੇ ਦੀ ਕੀ ਵਿਆਖਿਆ ਕੀਤੀ ਗਈ ਹੈ?

4. 'ਖਸਮਾਂ ਖਾਣਾ ਸੁੱਤਾ ਪਿਆ ਵੀ ਕੁਲਫੀਆਂ ਮੰਗਦਾ। " ਇਹ ਸ਼ਬਦ ਕਿਸ ਨੇ ਕਿਸ ਪ੍ਰਸੰਗ ਵਿੱਚ ਕਹੇ?
5. ਲੇਖਕ ਮਾਲਕ ਤੇ ਤਨਖਾਹ ਵਧਾਉਣ ਦੀ ਮੰਗ ਤੋਂ ਸੰਕੋਚ ਕਿਉਂ ਕਰ ਰਿਹਾ ਸੀ?
6. ਔਰੰਗਜ਼ੇਬ ਦਾ ਪਾਤਰ ਚਿਤਰਨ ਕਰੋ।
7. ਅਸਦ ਖਾਨ ਦੀ ਸਲਾਹ ਤੇ ਔਰੰਗਜ਼ੇਬ ਦੇ ਗੁਰੂ ਜੀ ਨਾਲ ਸੁਲਾਹ ਸਬੰਧੀ ਕੀ ਵਿਚਾਰ ਹਨ?
8. ਕਿਹੜਾ ਵਿਅਕਤੀ ਦਿਆਨਤਦਾਰੀ ਦੇ ਗੁਣਾਂ ਨੂੰ ਨਹੀਂ ਸਿੱਖ ਸਕਦਾ?
9. ਅੰਨੇ ਅਤੇ ਗੂੰਗੇ ਦੀ ਉਦਾਹਰਨ ਰਾਹੀਂ ਗੁਰਬਖਸ਼ ਸਿੰਘ ਨੇ ਕੀ ਕਹਿਣਾ ਚਾਹਿਆ?
10. " ਸੇ ਕਿਉ ਮੰਦਾ ਆਖੀਏ" ਸ਼ਬਦ ਵਿੱਚ ਇਸਤਰੀ ਦੀ ਮਹਾਨਤਾ ਦੱਸੀ ਗਈ ਹੈ ਸੰਖੇਪ ਵਿੱਚ ਵਰਣਨ ਕਰੋ।

***ਵੱਡੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ**

1. ਘਰ ਦਾ ਪਿਆਰ ਲੇਖ ਦਾ ਸਾਰ ਲਿਖੋ।
2. ਕੁਲਫੀ ਕਹਾਣੀ ਵਿੱਚ ਕਹਾਣੀਕਾਰ ਕੀ ਸੰਦੇਸ਼ ਦੇਣਾ ਚਾਹੁੰਦਾ ਹੈ?
3. ਕਰਤਾਰ ਸਿੰਘ ਕੌਣ ਸੀ? ਸੰਖੇਪ ਵਿੱਚ ਜਾਣਕਾਰੀ ਦਿਓ।
4. "ਕਿਰਪਾ ਕਰਿ ਕੈ ਬਖਸ਼ ਲੇਹੁ" ਦਾ ਕੇਂਦਰੀ ਭਾਵ ਲਿਖੋ।
5. ਜ਼ਫਰਨਾਮਾ ਇਕਾਂਗੀ ਦੇ ਵਿਸ਼ੇ ਅਤੇ ਪਾਤਰਾਂ ਬਾਰੇ ਸੰਖੇਪ ਜਾਣਕਾਰੀ ਦਿਓ।

8. ਪੋਰਟਫੋਲਿਓ ਬਣਾਓ

SUBJECT- SOCIAL SCIENCE

Learn and complete all the chapters.

II. Subject Enrichment Activity-Project Work on-

- 1) Sustainable Development
- 2) Social issues
- 3) Consumer awareness

The project File should consist of the following: Cover page, Certificate, Acknowledgment, Index, Introduction, Main Content, Conclusion and Bibliography.

III. MODEL MAKING

Prepare Models According to the topics of Social Science As per given Roll Numbers

TOPIC.	ROLL NO.
Resource Management	3,6,9
Evolution of Transport	12,15,18
Rainwater harvesting Model	21,24,27
Structure of Indian Federalism	30,33,36,39

IV.Prepare Power point presentation on the topics as per given Roll Numbers

TOPIC.	ROLL NO.
1.Making of a Global World	3, 6, 9,12,15,18,21
2.Agriculture in India	24,27,30,33,36,39

IV.Prepare Power point presentation on the topics as per given Roll Numbers

TOPIC.	ROLL NO.
1.Making of a Global World	3, 6, 9,12,15,18,21
2.Agriculture in India	24,27,30,33,36,39
3.Political Parties	7, 8, 10,13,16,19
4.Globalisation and the Indian Economy.	22,25,28,31,34,37,38

VI. ASSIGNMENT

Section 1: History

Chapter: Nationalism in India

◆ Very Short Answer Questions (1 - 2 lines)

- 1.What is nationalism?
- 2.Who led the Non-Cooperation Movement?
- 3.In which year did the Civil Disobedience Movement begin?

4.What was the Rowlatt Act?

5.What is the idea of Satyagraha?

Short Answer Questions (3 - 4 lines)

1.Why did nationalism develop in India?

2.Explain the role of Mahatma Gandhi in the freedom struggle.

3.What was the Non-Cooperation Movement?

4.Why did people participate in national movements?

Section 2: Civics

Chapter: Power Sharing

◆ Very Short Answer Questions

1.What is power sharing?

2.Name any one form of power sharing.

3.Which country is an example of power sharing?

4.What is horizontal distribution of power?

◆ Short Answer Questions

1.Why is power sharing important in a democracy?

2.Explain horizontal and vertical power sharing.

3.How does power sharing reduce conflicts?

Chapter: Federalism

◆ Very Short Answer Questions

1.What is federalism?

2.Name the two levels of government in India.

3.What is a union list?

4.What is decentralization?

◆ Short Answer Questions

1.Explain the features of federalism.

2.What is the difference between unitary and federal government?

3.Why is decentralization important?

Section 3: Geography

Chapter: Resources and Development

◆ Very Short Answer Questions

1.What is a resource?

2.Name one type of natural resource.

3.What is soil erosion?

4.What is sustainable development?

◆ Short Answer Questions

1.Explain different types of resources.

2.Why is resource planning important?

3.What are the causes of land degradation?

Chapter: Forest and Wildlife Resources

◆ Very Short Answer Questions

1.What is biodiversity?

2.Name one endangered species.

3.What is deforestation?

4.What are reserved forests?

◆ Short Answer Questions

1.Why should we conserve forests and wildlife?

2.Explain different categories of forests.

3.What are the causes of wildlife depletion?

Section 4: Economics

Chapter: Development

◆ Very Short Answer Questions

1.What is development?

2.What is income?

3.What is HDI?

4.Name one public facility.

◆ Short Answer Questions

1.Why do different people have different development goals?

2.What are the main components of HDI?

3.Why are public facilities important?

Chapter: Sectors of the Indian Economy

◆ Very Short Answer Questions

1.What is the primary sector?

2.What is the tertiary sector?

3.What is unemployment?

4.What is GDP?

◆ Short Answer Questions

1.Explain the three sectors of the Indian economy.

2.Why is the tertiary sector growing?

3.What are the problems of unemployment?

SUBJECT - SCIENCE

BIOLOGY.

1. Subject Enrichment Questions

Answer the following:

Explain the process of photosynthesis.

Differentiate between arteries and veins.

Describe the structure and function of nephron.

Explain the structure and function of heart.Draw diagram.

Activity: Effect of Light on Photosynthesis

Keep one potted plant in sunlight and another in shade for 2–3 days.

Observe leaf colour and growth.

Write: Aim, Materials required , Procedure ,Observation and Conclusion

Prepare any one project/model:

Working lung model

Water filtration model

DNA model

Heart model or any other innovative model.

Prepare a ppt on different topics from ch life processes Ppt is mandatory for every student.

Practical work

1. To prepare a temporary mount of a leaf peel to show stomata.
2. To study (a) binary fission in amoeba (b) budding in yeast with the help of prepared slides.
3. To identify the different parts of an embryo of a dicot seed .

CHEMISTRY

1. Make PowerPoint Presentation on the following topic.

Effects of Oxidation in Daily Life: Corrosion and Rancidity (Roll No. 2, 5, 8, 11, 14, 17, 20)

Types of Chemical Reactions (Roll No. 23, 26, 29, 32, 35, 38, 41)

Project Work

Prepare an investigatory project file on the topic "Study of Rusting Under Different Conditions."

Reference Conditions:

Air and water

Salt water

Water without dissolved air

Dry air

The file should include -

Aim

Materials required

Procedure

Observation table

Conclusion

Work related to practical notebook -

Write down the following experiments in the practical notebook.

Experiment 7 - To find the pH of the following samples by using pH paper/universal indicator.

(i) Dilute hydrochloric acid

(ii) Dilute sodium hydroxide (NaOH) solution

(iii) Dilute ethanoic acid solution

(iv) Lemon juice

(v) Water

(vi) Dilute sodium bicarbonate solution

Experiment 9.1, 9.2, 9.3,9.4 in your practical file.

Complete your fair notebook.

Students with following roll numbers have to make innovative model for Science Exhibition.

1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40

PHYSICS

(A) Solve the following numericals in your notebook:

1. An object is placed 20 cm in front of a concave mirror of focal length 15 cm. Find the position of the image and magnification.

2. An object placed 10 cm from a concave mirror forms an image at 30 cm. Find the focal length and magnification.

3. A convex mirror has a focal length of 30 cm. An object is placed 15 cm in front of it. Calculate the image distance and magnification.

4. An object is placed 25 cm in front of a convex mirror of focal length 20 cm. Find the image distance and magnification.

(B) Draw *ray diagrams* of concave and convex mirrors for different positions of object in a *scrap book.*

(C) Write experiments no.14(a,b),15,16 in your practical file.

(D) Make a POWERPOINT PRESENTATION on any of the following topics:

(i) Reflection of light

(ii) Refraction of light

(iii) Human eye

(iv) Defects of vision

SUBJECT - IT

* Revise Chapter 1 to 3 from employability skills

* Revise chapter 1.1 and 1.2 of subject specific.

* Prepare the assignment sheets for practical file from Libre office writer.(Demo for the same will be shared in the class groups)

SUBJECT - IFM

Revise all the chapters done in the class.

Activity-Based Work (Fun Learning)

Activity 1: My Dream Investment

- * If you had ₹10,000, where would you invest and why?
- * Write 5–6 lines and draw a picture (bank, gold, shares, etc.)

Activity 2: Company Research

- * Choose any 5 companies (like Reliance Industries or Tata Consultancy Services)
- * Find:
 - * What does the company do?
 - * Its logo (draw or paste)
 - * Why people invest in it

Activity 3: Market News Scrapbook (Dollar v/s Rupee)

- * Collect 2 news articles related to stock market
- * Paste them in notebook
- * Write 2–3 lines about each.

HAPPY HOLIDAYS

