

Nankana Sahib Public School, Gill Park, Ludhiana
Holidays Homework 2026-27
SUBJECT - SOCIAL SCIENCE



I. Learn and complete all the chapters.

II. SUBJECT ENRICHMENT ACTIVITY-Project Work on Disaster Management taking any one of the following topic [10-15 A4 size sheets}1 Flood

2.Drought

3.Earthquake

4.Industrial accidents

5.Cyclones

6.TsunamiThe project File should consist of the following: Cover page, index, introduction, causes of Disasters, precautionary steps to be taken, Rescue and relief, Most affected Areas **III.MODEL MAKING**

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

TOPIC.	ROLL NO.
A scene of polling day Model	2,5,8
Types of agriculture Model	11,14,17
Rainwater harvesting Model	20,23,26
Indian Parliament Model	29,32,35
Smart City Model	38,41

Alternatively, you may select any other topic from the list below."

Pollution control Model

Village versus city life model

Layers of the earth Model

Disaster Management Model

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

TOPIC.	ROLL NO.
1.Understanding social science	3, 6, 9,12,15,18,21
2.Understanding Democracy.	24,27,30,33,36,39

You can also choose a topic of your own choice from the options provided below."

Elections.

Atmosphere and Climate

Shaping of the earth's Surface

V. Create a large tree diagram in which the trunk is “Social Science” and the branches are its sub-fields (History, Geography, Civics, Economics.). Students fill in leaves with concepts they think belong to each area

VI. ASSIGNMENT

Chapters: Understanding Social Science, Elections & Why Choices Matter, -The Basics of Economics

Section A – Very Short Answer Questions

(Answer in one sentence)

- 1.What is Social Science?
- 2.Name any two branches of Social Science.
- 3.What is democracy?
- 4.What is an election?
- 5.Who conducts elections in India?
- 6.What is voting?
- 7.What is meant by “choices”?
- 8.Why do choices matter in life?
- 9.Define economics.
- 10.What are basic needs?

Section B – Short Answer Questions

(Answer in 30–50 words)

- 11.Explain the importance of Social Science.
- 12.What are the duties of a good citizen?
- 13.Why are elections important in a democracy?
- 14.What is the role of the Election Commission?
- 15.Explain universal adult franchise.
- 16.Differentiate between needs and wants.
- 17.Explain the importance of making good choices.
- 18.What is production in economics?

Section C – Long Answer Questions

(Answer in 80–100 words)

19. Describe the different branches of Social Science.
20. Explain the election process in India.
21. How do elections strengthen democracy?
22. Discuss why choices matter in everyday life.
23. Explain the four factors of production with examples.
24. Describe the importance of economics in daily life.
25. Write a detailed note on free and fair elections.


Activity Section

Draw any two symbols of political parties.

Prepare a chart showing “Needs and Wants”.

VII. GEOGRAPHY ATLAS WORK – CLASS 9th

Students are instructed to prepare a neat and attractive Geography Atlas by completing the following map works carefully. Proper labelling, colouring, and presentation are important. The atlas will help students improve their geographical knowledge and map skills.

 **Maps to be Included:**

 **India Political Map**

Mark:

★ All States and Capitals

★ Union Territories

☑ ★ Areas of highest and lowest rainfall

 **World Political Map**

★ All oceans and Hot and Cold deserts

SUBJECT : ENGLISH

Important Note: Holiday homework must be done on a separate notebook

1. Write the difficult words with their meanings from the book Kaveri of the chapters and poems done till May 20,2026
2. Read all the chapters done till 20th May2026
Write 5 extracts two poems with questions and answers . From two lesson that have been taught in class write 10 short questions, 10 long questions in the holidays homework notebook.
3. Draw **chart** on the following Grammar topics. (A4 sheets)
Tenses, Modals, Determiners, Subject – Verb Concord
4. Write Formal Email, Descriptive Paragraph, Descriptive Essay. (2each)
5. Write Notice on the following subjects : Meetings, Trip, Appeal, Fair or Exhibition.
6. Write the poetic devices used in the poems **Bharat Our Land** and **Gifts of Grace Honoring Our Vocations**.

Note: Complete BBC COMPACTA and writing skills done so far in the class .

Portfolio

Note: it is mandatory for all the students to make the portfolio

Follow the following format for portfolio

Page 1

Write your name and paste your picture in uniform

Page 2

Information about myself

Date of Birth, School name, Class and sections, Roll number, Scholar I'd, height, blood group, Aadhar no.,

Page 3

Mother name, Father's name, Contact number, Number of members in the family, Siblings, Address

Page 4

How much I know about Myself

What I like, what I dislike, My Strength, My weakness, My favourite sports, My aim in life, Person I admire, When I am scared, Most important person in my life

Page 5

My creative mind

Write one poem/ article/ jokes/ story for the school magazine and monthly newsletter.

Page 6

Write in 180-200 words about anything you taught to your grandparents and anything they taught you.

Page 7

Make a poster on any of the following topics:

Road safety, water crisis in the world, say no to war, world peace, future of AI

Last page :

Page 8

Signature of student

Signature of teacher

SUBJECT - SCIENCE

I. Make a **PowerPoint Presentation** on the following topics.

1) Properties of solution , suspension and colloid (Roll No. 2, 5, 8, 11, 14)

2) Different topics from Chapter - Cell (Roll No. 17, 20, 23, 26, 29)

3) Motion (Roll No. 32, 35, 38, 41)

II. Work on Scrap Book

“Amazing World of Cells”

III. Project Work

1) Make a project file on the applications of solution , suspension and colloid in daily life.

2) Make a project file on “**Cycle Motion Observation Activity**” . Observe the motion of a bicycle and identify different types of motion, speed, and acceleration. The project should include observations, drawings/pictures, and creative presentation done neatly in the scrapfile.

IV. Model Making

Students with following roll numbers are required to

prepare model on any topic for Science Exhibition.

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

Note :

- Group of maximum 3 students can make a model.
More than 3 students in a group are not allowed.
- A student can make model individually if anyone wants.
- It is mandatory for the students with the mentioned roll numbers to participate in the Science Exhibition as this activity carries weightage in the Internal Assessment.

V. Complete your **fair notebooks** of Physics, Chemistry and Biology.

VI. Assignment

Answer the following:

Write a short note discovery of life.

1. Explain osmosis with one daily-life example.

2. Why are mitochondria called the “powerhouse of the cell”?

3. Write short notes on:

Plasma membrane, Chloroplast, Ribosomes, cell division

4. Difference between Mitosis and Meiosis.

5. A solution contains 40 g of common salt in 320 g of water . Calculate the concentration in terms of mass by mass percentage of the solution

6. If 15 ml of alcohol is dissolved in water to make a total volume of 150 ml of solution. Calculate the volume by volume percentage of the solution.

7. While calculating the mass percentage of a solution, a student divided the mass of the solute by the mass of the solvent instead of the solution. Will the calculated concentration be higher or lower than the actual value?

8. To make a saturated solution, 36 g of sodium chloride is dissolved in 100g of water at 293 K. Find its concentration at this temperature.

9. A car travels 30 Km at a uniform speed of 40 Km/ hr and the next 30 Km at a uniform speed of 20 Km/hr . Find its average speed.

10. A train starting from a railway station and moving with uniform acceleration attains a speed of 40 Km/hr in 10 min. Find its acceleration.

11. Write differences between:-

- a) Speed and Velocity
- b) Distance and Displacement
- c) Uniform and Non Uniform Acceleration

12. A ball rolling on a floor slows from 20 m/s to 5 m/s in 5 seconds.

Find: a) Average acceleration b) Nature of acceleration

ਵਿਸ਼ਾ - ਪੰਜਾਬੀ

- *ਸਪਤਾਹਿਕ ਪੇਪਰ ਵਿੱਚ ਆਉਣ ਵਾਲੇ ਪਾਠਾਂ ਦੇ ਪ੍ਰਸ਼ਨ ਉੱਤਰ ਆਪਣੀਆਂ ਕਾਪੀਆਂ ਵਿੱਚ ਲਿਖੋ।
- *ਸਪਤਾਹਿਕ ਪੇਪਰ ਨਾਲ ਸੰਬੰਧਿਤ ਸਿਲੇਬਸ ਦੀ ਤਿਆਰੀ ਕਰੋ। ਸਿਲੇਬਸ ਗਰੁੱਪ ਵਿੱਚ ਭੇਜਿਆ ਜਾਵੇਗਾ।
- *ਵਿਆਕਰਨ ਸਬੰਧੀ ਕਾਰਜ A3 ਸਾਈਜ਼ ਸੀਟ ਤੇ ਬਣਾਓ:*
- *ਵਿਸਮਿਕ ਦੀ ਪਰਿਭਾਸ਼ਾ ਤੇ ਕਿਸਮਾਂ

Roll number (1-4)

- 1) ਸੰਬੋਧਨੀ ਵਿਸਮਿਕ(5-8)
- 2) ਪ੍ਰਸ਼ੰਸਾਵਾਚਕ ਵਿਸਮਿਕ(9-12)
- 3) ਇੱਛਾਵਾਚਕ ਵਿਸਮਿਕ(13-16)
- 4) ਹੈਰਾਨੀਵਾਚਕ ਵਿਸਮਿਕ (17-20)
- 5) ਸੂਚਨਾ ਵਾਚਕ ਵਿਸਮਿਕ(21-24)
- 6) ਫਿਟਕਾਰ ਵਾਚਕ ਵਿਸਮਿਕ(25-28) 7) ਅਸੀਸਵਾਚਕ ਵਿਸਮਿਕ(29-32) 8) ਸਤਿਕਾਰਵਾਚਕ ਵਿਸਮਿਕ(33-36)
- 9) ਸ਼ੋਕਵਾਚਕ ਵਿਸਮਿਕ (37 onwards)

ਰਚਨਾਤਮਕ ਕਾਰਜ:

*ਪ੍ਰੋਜੈਕਟ ਫਾਈਲ ਤਿਆਰ ਕਰੋ।(ਵਿਸ਼ਾ -ਪੰਜਾਬ ਅਤੇ ਉੜੀਸਾ ਨਾਲ ਸੰਬੰਧਿਤ ਬੋਲੀ ,ਲਿਪੀ ਅਤੇ ਲੋਕ ਖੇਡਾਂ ਸਬੰਧੀ ਤਸਵੀਰਾਂ ਸਹਿਤ A4 ਸਾਈਜ਼ ਸੀਟ ਤੇ ਬਣਾਓ।)

- *ਸਵੈ -ਰਚਨਾ (ਕਹਾਣੀ, ਲੇਖ, ਕਵਿਤਾ, ਸਫਰਨਾਮਾ ਵਿੱਚੋਂ ਕੋਈ ਇੱਕ ਸਵੈ ਰਚਨਾ ਲਿਖੋ)
- *'ਨੈਤਿਕ ਸਿੱਖਿਆ ਨਾਲ ਸੰਬੰਧਿਤ' 200-300 ਸ਼ਬਦਾਂ ਦੀ ਕਹਾਣੀ ਆਪਣੀ ਪੰਜਾਬੀ ਦੀ ਕਾਪੀ ਵਿੱਚ ਲਿਖੋ।
- *ਸਵੈ -ਰਚਨਾ ਲਿਖੋ। (ਕਹਾਣੀ ,ਕਵਿਤਾ ਲੇਖ ਜਾਂ ਵਿਦਿਆਰਥੀ ਦੀ ਇੱਛਾ ਅਨੁਸਾਰ)
- *A 3 ਸਾਈਜ਼ ਸੀਟ ਤੇ ਕੋਲਾਜ ਆਪਣੇ- ਆਪਣੇ ਰੋਲ ਨੰਬਰ ਅਨੁਸਾਰ ਬਣਾਓ।

ਮੇਲਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕੋਲਾਜ(1-20 roll number)

ਤਿਉਹਾਰਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕੋਲਾਜ(20 onwards)

विषय -हिंदी

👉 'दो बैलों की कथा' तथा 'क्या लिखूं' अध्याय से 10 मुहावरे छांटें और उनका अर्थ लिखकर वाक्यों में प्रयोग करें

👉 संज्ञा की परिभाषा लिखकर उसके भेदों और उपभेदों का FLOW CHART बनाइये तथा भेदों के उदाहरण देकर उनसे संबंधित चित्र चिपकाइए

👉 HINDI ASSIGNMENT हल कीजिए।

NOTE- Do this 👉 work in Hindi fair notebook

👉 पंजाब और उड़ीसा के पर्यटक स्थलों का कोलाज बनाकर उनका वर्णन कीजिए (**Art integrated activity**)

👉 Newsletter ke liye स्वरचित कविता/ कहानी लिखें।

Note -

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

👉 Do art integrated activity on A4 size sheet.

SUBJECT - I.T.

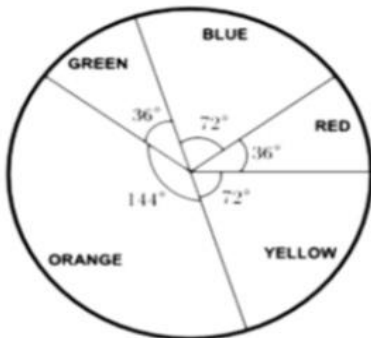
Revise Chapter 1 to 2 from employability skills for test after the holidays.

SUBJECT – I.F.M

1. Revise all chapters previously done in the class
2. Make a scrap book / A4 sheet for evolution of money.
3. Visit bank with parents & collect withdrawal and deposit slips to understand banking system and paste it in IFM notebook.
4. Paste a demo cheque in the IFM notebook.

Holidays Homework
Subject: Mathematics
Class IX (2026-27)

1.	Check whether the points $(20,3)$, $(19,8)$, and $(2, -9)$ are all equidistant from $(7,3)$.
2.	Show that the points $(12,8)$, $(-2,6)$ and $(6,0)$ are the vertices of a right angled triangle.
3.	Prove that the points $A(6,9)$, $B(0,1)$ and $(-6, -7)$ are collinear.
4.	Find a point on x-axis which is equidistant from $(2, -5)$ and $(-2,9)$.
5.	Show that the vertices $(2, -3)$, $(6,5)$, $(-2,1)$ and $(-6, -7)$ are of rhombus.
6.	Find the length of medians of a triangle whose vertices are $(-1,3)$, $(1, -1)$ and $(5,1)$.
7.	Points $A(3,1)$, $B(5,1)$, $C(a,b)$ and $D(4,3)$ are the vertices of a parallelogram ABCD. Find a and b.
8.	If AB is a diameter of a circle with centre O. Find the coordinates of B if A and O are $(4, -1)$ and $(1, -3)$ respectively.
9.	<p>Harkirat Singh has a field which is in the shape of a right angled triangle AQC. He wants to leave a space in the form of a square PQRS inside the field for growing wheat and the remaining for growing vegetables (as shown in the figure). In the field there is a pole marked as O.</p> <div style="text-align: center;"> </div> <p>i. Taking O as origin, coordinates of P are $(-200, 0)$ and of Q are $(200, 0)$. PQRS being a square, what are the coordinates of R and S?</p> <p>ii. What is the area of square PQRS?</p> <p>iii. What is the length of the diagonal PR in square PQRS?</p>
10.	<p>Shown below is a town plan on a coordinate grid, where 1 unit = 1 km. Consider the co-ordinates of each building to be the point of intersection of the respective grid lines. Based on above information answer following questions:</p> <p>i. Write the coordinates of hospital.</p> <p>ii. What is the distance between the school and house 1?</p> <p>iii. Write ordinate of house 2.</p> <div style="text-align: center;"> </div>
11.	Find the probability of getting 53 Sundays in a non - leap year.
12.	Cards marked with numbers from 5 to 50 are placed in box and mixed thoroughly. A card is

	<p>drawn at random find the probability of getting that the number on the card drawn is:</p> <ol style="list-style-type: none"> Prime number less than 10 A perfect square A multiple of 3 Odd number Even number greater than 41 Number greater than 15 and multiple of 4
13	<p>Two dice are thrown at the time. Find the probability of getting:</p> <ol style="list-style-type: none"> Co-prime number on both faces. Sum of numbers appearing on the top off both faces is 9. A doublet. 5 will not come up on either time. 5 will come on both the faces. Different number on the both dice. The difference of the numbers on the two dice is 2. The sum of two numbers appearing on the top of the dice is 8.
14	<p>Arshpreet Singh has four 50- rupee notes, seven 100-rupee notes and two 2000-rupee notes in her purse. She doesn't have any other denomination of currency with her. She goes for shopping and buys a dress for 799. She takes out a note from her purse at random.</p> <ol style="list-style-type: none"> Find the probability that the note will be sufficient to pay for the dress. Find the probability that she will be able to give exactly 799 to the shopkeeper.
15	<p>Three - digit numbers are made using the digits 4, 5, 9 (without repetition). If a number among them is selected at random, what is the probability that the number will be:</p> <ol style="list-style-type: none"> a multiple of 5 a multiple of 9 will end with 9
16	<p>A survey was taken at a high school, and the results were put in a circle graph. The students were asked to list their favourite colours. The measurement of each central angle is shown. If a person is chosen at random from the school, find the probability of each response.</p> <div style="text-align: center;">  </div> <ol style="list-style-type: none"> What is the probability of favourite colour being red? What is the probability of favourite colour being blue or green? What is the probability of favourite colour not being red or blue? What is the probability of favourite colour not being orange or green? What is the probability of favourite colour being red or blue?
17	<p>A box contains cards on which the numbers from 2 to 101 are marked. A card is drawn from the bag at random, find the probability that number on the card drawn is:</p> <ol style="list-style-type: none"> a multiple of 7 a perfect square number a two digit number
18	<p>A jar contains 24 marbles-some are green and others are blue. If a marble is drawn at random from the jar, the probability that it is green is $\frac{2}{3}$. Then find the number of blue marbles in the jar.</p>
19	<p>A letter of English alphabets is chosen at random. What is the probability that it is a letter of the word 'MATHEMATICS'?</p>

20	If $(x - a)$ is a factor of $3x^2 - mx - nx$, then prove that $a = \frac{m+n}{3}$, given $(a \neq 0)$.
21	If $2x - 3y = 8$ and $xy = 2$ then find the value of $4x^2 + 9y^2$.
22	If $x - \frac{1}{x} = 7$, then find the $x^2 + \frac{1}{x^2}$
23	If $a^2 + b^2 + c^2 = 16$ and $ab + bc + ca = 10$, then find the value of $a + b + c$.
24	Find the following product: $(2x - y + 3z)(4x^2 + y^2 + 9z^2 + 2xy + 3yz - 6zx)$
25	If $x - \frac{1}{x} = 5$, then find the $x^3 - \frac{1}{x^3}$
26	Factorise: $x^4 + x^2y^2 + y^4$.
27	Factorise: $8p^3 + \frac{1}{27}$
28	Simplify: $\frac{1.03 \times 1.03 \times 1.03 - 0.03 \times 0.03 \times 0.03}{1.03 \times 1.03 + 1.03 \times 0.03 + 0.03 \times 0.03}$
29	If $x = 2 - y$, then prove that $x^3 + 6xy + y^3 - 8 = 0$
30	If $\frac{x}{y} + \frac{y}{x} = -1$, then find $x^3 - y^3$
31	Represent $\sqrt{85}$ on number line.
32	Evaluate: $\frac{4}{3} + 0.\overline{23} + \left \frac{-5}{33} \right $
33	Express $-\frac{23}{8}$ into decimal form by long division method.
34	Find x if $\frac{3x}{7} - \frac{2x}{5} = \frac{-14}{5}$
35	Find Six rational and irrational numbers between $\frac{-1}{2}$ and $\frac{-1}{3}$.
36	Prove that $\frac{1}{\sqrt{2}}$ is an irrational number.
37	Evaluate: $\left(\frac{6}{11} - \left(\frac{-2}{11} \right) \right) \times \left(\frac{7}{5} + \left(\frac{-3}{10} \right) \right)$
38	<p>To Judge the preparation of students of class IX on Topic number System, Mathematics teacher writes two numbers on blackboard (as shown in figure) and asks some questions about the two numbers.</p> <p>I. Write the decimal form of $\frac{2}{11}$.</p> <p>II. Write the $\frac{p}{q}$ form of $0.3\overline{8}$.</p> <p>III. If $\frac{p}{q}$ of $0.3\overline{8}$ is $\frac{m}{n}$, then find the value of $m + n$.</p>
39	Evaluate: $\left(\frac{35}{18} \times \left(-\frac{9}{5} \right) \right) \div \left(-\frac{49}{63} + \left(-\frac{18}{21} \right) \right)$
40	If $x = -\frac{2}{3}$, $y = \frac{1}{4}$, $z = -\frac{5}{8}$ verify that: $y(z - x) = yz - yx$



SUMMER VACATION

ASSIGNMENT DISTRIBUTION

Roll No. Distribution for Model & PPT

MODEL MAKING



Model making should be in groups comprising three students each.



SUBJECT	ROLL NUMBERS
SCIENCE	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40
MATHS	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39
S.ST.	2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 41

PPT PRESENTATION



PPT should also be in groups as assigned.



SUBJECT	ROLL NUMBERS
SCIENCE	2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 41
MATHS	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40
S.ST.	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39

IMPORTANT NOTES

- Each group must comprise **THREE** students.
- Work should be original, neat and well-presented.
- Submission date will be announced after vacation.
- Use creativity and present your best effort!



Be Creative, Be Confident, Do Your Best!

HAPPY HOLIDAYS