

J.R.M. INTERNATIONAL SCHOOL

Achhnera Road, Sahai, Bichpuri, Agra

Session – 2026- 27

Holiday Homework

Class – 9th A

Note : Do these pages only.

1. Hindi :

- हिन्दी साहित्य के आधुनिक युग के किन्हीं चार लेखकों का जीवन परिचय व रचनाओं का सचित्र वर्णन कीजिए
- कोई पाँच सांस्कृतिक गति विधियों से सम्बन्धित चित्र एकत्र कीजिए व उन से सम्बन्धित चार या पाँच पंक्तियाँ लिखिए
- हिन्दी भाषा में लिखे गये किसी एक महान ग्रंथ पर लेख लिखिए (चित्रानुसार)

नोट : समस्त कार्य प्रोजेक्ट फाइल में कीजिए

2. English –

1. Literature: -

- Choose a character from your literature reader (kaveri) and create a detailed profile, focusing on their traits, motivation and role in the story.

2. Language: Project file

- Write a descriptive Paragraph about 300 words on the topic – “ The story of My Life”
Write your own experiences [Memorable moments, incidents, joy sorrows etc.]
- Write an essay in about 200 words on the topic. “Clean India Green India” also paste required pictures.
- Make a format of “Formal Letter” also write a letter to the editor on the problem of “Child Labour”.

3. Science:

Physics:-

- Portfolio on the topic Gravitation

Note : Instruction and Structure are same as Biology/Chemistry

Biology:-

Topic – Improvement in food Resources

Chemistry: -

Topic – State of Matter

[To Prepare a Portfolio]

Note : Instructions same as class 10th

4. Social Study –

- Prepare a project on the topic Disaster management.
- Collect pictures of different land forms as (Mountains, Plateaus, Plains) Paste them in file and write 3 to 5 lines about each.
- Prepare a poster on plate tectonics (boundaries), Interior of the earth (Crust, Mantle, Core)

Note : a. Write neat and clean

b. Use Colours and creativity.

5. Information Technology:–

- Make a project file of Digital Documentation

6. Mathematics –

Worksheet 1: Orienting Yourself: The Use of Coordinates

1. Plot the points A(2, 3), B(-4, 2), C(-3, -5), D(4, -2) on the coordinate plane. Write the quadrant of each point.
2. Write the coordinates of any three points lying: (i) on x-axis (ii) on y-axis
3. Find the mid point of the line segment joining the points A(3, 4) and B(7, 4).
4. Find the distance between the points P(-2, 5) and Q(-2, -3).
5. Find the distance of A(1, 2) from x-axis and B(4, 6) from y axis.
6. If point P lies on y-axis and its y-coordinate is -6, write its coordinates.
7. Plot the points (2, 0), (0, -3), (-4, 0), (0, 5). What do you observe?
8. Find the coordinates of a point which is 3 units right and 2 units up from origin.
9. Find the area of triangle PQR formed by the points P(-5, 7), Q(-4, -5) and R(4, 5).
10. Find whether points (-1, -2), (-2, -2) and (3, 1) are collinear?

Worksheet 2:

Introduction to Linear Polynomials

1. Find the degree of: (i) $3x^2 + 5x + 1$ (ii) $7y^3 - 2y$ (iii) 5 (iv) $4z - 9$
2. Write one polynomial each of degree 1, 2, and 3.
3. Find coefficients of x^2 and x^3 in $x^4 - 2x^3 + 3x^2 - x + 5$.
4. Find value of $5x - 3$ when (i) $x=0$ (ii) $x=-2$ (iii) $x=3$.
5. Find value of $3x^2 - 2x + 1$ when $x=-2$.
6. Sum of two numbers is 50. One is 6 more than the other. Find them.
7. Difference between two numbers is 40 and ratio is 3:5. Find them.
8. A person has ₹120 and spends ₹10 daily. After how many days will ₹50 remain?
9. Write all types of polynomials on the basis of terms and degrees.
10. Form expression: "A number increased by 7 and then multiplied by 2."

Worksheet 3:

The World of Numbers

1. A trader gets 12 coins for 3 items. For 15 items, how many coins?
2. Prove $\sqrt{2}$ as an irrational number.
3. Are natural numbers closed under Division? Explain.
4. Temperature drops from 5°C by 12°C . Find final temperature.
5. Loan ₹1500, earn ₹1800, loss ₹2200. Find final amount.
6. Calculate: (i) -15×4 (ii) $-6 \times (-7)$ (iii) $0 - (-9)$ (iv) $-20 \div 5$
7. If $a = -2$, $b = -1$, then find $a^b - b^a$.
8. Find a) $3/5 + 2/10$ b) $3/5 - 2/10$ c) $3/5 \times 2/10$ d) $3/5 \div 2/10$
9. Find the three rational numbers between:
(i) -1 and -2 (ii) 0.1 and 0.11 (iii) $5/7$ and $6/7$ (iv) $-1/4$ and -1
10. To judge the preparation of student's class IX on topic "Number System" Mathematics teachers write two numbers on black board (as shown in figure), and asks some questions about the numbers, which are following, then answer the question:
(i) Write the decimal form of $2/11$
(ii) Write the p/q form of 0.38. Write the decimal expansion of $2/11$.
(iii) If p/q form of 0.38 is m/n, then find the value of $(m + n)$