Maheshwari Public School

Jawahar Nagar, Jaipur

A Prestigious Co-Educational English Medium School

Governed by The Education Committee of The Maheshwari Samaj Society, Jaipur

Affiliated to CBSE, Delhi , Affiliation No. 1730004

"Sunshine, smiles, and a sprinkle of magic – it's summer once again! The season to let imaginations soar like kites in the sky and hearts dance to the tune of freedom."

Summer brings with it a symphony of laughter, rest, and a world of endless possibilities.

Let this summer be a canvas where every child can paint their dreams, sing their songs, and nurture a hobby that brings them closer to nature and to themselves. Encourage your child to explore, create, and discover - for learning does not take a break when the school bell stops ringing.

"Every summer has a story – let this one be full of wonder and growth."

To make the most of this time, we have designed a collection of engaging projects and activities that will not only keep the young minds active but will also help them learn while they play. These thoughtfully crafted assignments are meant to spark curiosity, inspire creativity, and promote family bonding. Parents are welcome to lend a hand but remember – let the child's imagination lead the way.

You can download the Summer Holiday Homework from the school website. For any clarification or assistance, feel free to reach out to the concerned teachers. Each assignment will form an integral part of the internal assessment.

"A summer well spent is a summer well remembered."

Stay safe, stay curious,

and keep the spirit of

learning alive!

Wishing you a vibrant,

joyful, and Sun-kissed Holidays!

Subject: English

Q1. Make a colourful poster on an A4 size sheet depicting the difference between Futuristic school and Ancient school.

Q2. Paste your postcard size photograph in school uniform and write 3 inspirational quotes, 5 adjectives describing yourself, your strengths, weaknesses, passion/ ambition /goal in life.

Q3. Write 5 diary entries expressing your gratitude to universe, God or parents for the things, people /friends or blessings you have in your life.

Subject: हिंदी

ग्रीष्मावकाशकालीन गृहकार्य
(रचनात्मक एवं कला समेकित परियोजना कार्य)
● पाठ्यक्रम के आधार पर निर्धारित अलंकारों (अनुप्रास, यमक व श्लेष) के 5-5 उदाहरण काव्य पंक्तियों में लिखकर याद करें।(गृहकार्य कॉपी में)
● दिल्ली से मुंबई जाते समय बस में आपका मोबाइल खो गया है, इसकी सूचना देते हुए बस परिवहन विभाग के अधिकारी को ई- मेल लिखिए।-(गृह कार्य कॉपी में)
● अपने प्रिय विषय पर स्वरचित कविता A-4 साइज़ की शीट पर लिखें।
● राजस्थान व नागालैंड का साहित्य, पोशाक, नृत्य व पर्व-त्योहार का सचित्र वर्णन कीजिए।(file बनाएँ)
● अपनी हिंदी भाषा में और अधिक सुधार लाने के लिए, लेखन को आकर्षक व सुंदर बनाने के लिए, लेखन और वाचन कौशलों का विकास करने के लिए छुट्टियों में प्रतिदिन एक पृष्ठ हिंदी भाषा में लिखिए और एक पृष्ठ वाचन कीजिए। लेखन का यह अभ्यास अलग से कॉपी बनाकर कीजिए।

Subject:Sanskrit

1. श्रीमद्भगवद्गीतायाः निम्नलिखितान् श्लोकान् अर्थसहितं गृहकार्यसंचिकायां लिखत स्मरत च-

द्वितीयः अध्यायः - श्लोक संख्या – **23,47,63**

चतुर्थः अध्यायः - श्लोक संख्या – **7,8**

1. दैनिकसमाचारपत्रेषु आगतानां केषाञ्चित् पञ्चचित्राणां पञ्च-पञ्च संस्कृत वाक्येषु वर्णनं कुरुत। (गृहकार्यसंचिकायां चित्राणि अपि योजयत)

1. ग्रीष्मावकाशस्य सदुपयोगविषये द्वयोः मित्रयोः परस्परवार्तालापं संवादरूपे लिखत।

1. संस्कृत-कला-समेकित-परियोजना-कार्यम्-राजस्थान-नागालैंडयोः कलावैशिष्ट्याधारित सचित्र परिचयलेखनम् (न्यूनतम-अष्ट पृष्ठात्मकं, **A4** पृष्ठेषु फ़ाइलरूपे)

 निम्नलिखितबिन्दवः सम्मिलिताः स्युः -

(i) मुख्य पृष्ठः

(ii)स्व-परिचयः,परियोजना परिचयः, विषय-अध्यापकस्य नाम

(iii) कृतज्ञता-ज्ञापनम्

(iv)नागालैंडराज्यस्य सामान्य परिचयः

(v) नागालैंडस्य कलानां परिचयः

(vi) राजस्थानस्य सामान्य परिचयः

(vii)राजस्थानस्य कलानां परिचयः

(viii) धन्यवादः

<center>**Subject: French**</center>

Dear French Students, please do your holiday HW in Notebooks using blue black pens.

Q1. Préparez votre Fiche d'identité.

Q2. Faites un arbre généalogique (Make a Family Tree using French words)

Q3. Complétez avec les adjectifs démonstratifs

 i) Elle voit ……… beau meuble.
ii)..................... salon est propre.
iii)   J'habite près de.............gare.
iv)   Elle envoie …….lettre à .... ami.
v)..................... film est intéressant.
vi).................... potage est bon.
vii).............. hôtel est loin de ma maison.
viii)................. café attire beaucoup de clients.
ix)   Il n'aime pas...............soupe.
x).................... dictionnaire est gros.

 Q4. L'Inde et la France sont célèbres pour leurs monuments. Comparez les monuments de la France avec l'Inde en collant 4 monuments célèbres de chaque pays.

1. ART INTEGRATED PROJECT WORK
Prepare a file for comparative analysis of Nagaland and Rajasthan on the following points:
1. Population of Males and Females by drawing a Bar Graph.
2. Religions followed by various people of above-mentioned states by drawing a Pie Chart.

- Compile your project work in a file.
- It should be handwritten.
- Draw the Bar Graph and Pie Chart only. Mention the relevant data also in tabular form.

2. Do the following activities in Maths Lab Manual.
(i) Activity 2- Square root spiral
(ii) Activity 7-Factorisation of quadratic polynomial by the method of splitting the middle term.
(iii) Activity 10- Quadrant and Co-ordinates

3. Solve the following questions in HW copy:

Q1. Express the following numbers in the form of $\frac{p}{q}$:

(a) $0.3\overline{2}$ (b) $15.7\overline{12}$

Q2. Find the three rational numbers and three irrational numbers between 2 and 5.

Q3. Evaluate each of the following:

(a) $\left(\frac{2}{11}\right)^4 \times \left(\frac{11}{3}\right)^2 \times \left(\frac{3}{2}\right)^2$ (b) $\left(\frac{1}{2}\right)^5 \times \left(\frac{-2}{3}\right)^4 \times \left(\frac{3}{5}\right)^{-1}$

Q4. Find the value of x, if $5^{(x-3)} \times 3^{(2x-8)} = 225$.

Q5. Assuming that x is a positively real number and a, b, c are rational numbers, show that

(a) $\left(\frac{x^b}{x^c}\right)^a \left(\frac{x^c}{x^a}\right)^b \left(\frac{x^a}{x^b}\right)^c = 1$ (b) $\left(\frac{x^a}{x^b}\right)^{a+b} \left(\frac{x^b}{x^c}\right)^{b+c} \left(\frac{x^c}{x^a}\right)^{c+a} = 1$

Q6. Find the value of $\frac{32^{0.2}+81^{0.25}}{256^{0.5}-121^{0.5}}$.

Q7. If $\frac{9^n \times 3^2 \times 3^n - 27^n}{3^{3m} \times 2^3} = \frac{1}{27}$, then proe that $m - n = 1$.

Q8. If both a and b are rational numbers, find the values of 'a' and 'b' in the following:

(a) $\frac{\sqrt{3}-1}{\sqrt{3}+1} = a + b\sqrt{3}$ (b) $\frac{\sqrt{2}+\sqrt{3}}{3\sqrt{2}-2\sqrt{3}} = a - b\sqrt{6}$

Q9. If $x = 2 + \sqrt{3}$, find the value of

(i) $x - \frac{1}{x}$ (ii) $x^2 + \frac{1}{x^2}$

Q10. Find the value of 'a' and 'b' if

$\frac{7+3\sqrt{5}}{3+\sqrt{5}} - \frac{7-3\sqrt{5}}{3-\sqrt{5}} = a + \sqrt{5}b$

Q11. Simplify: $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[5]{32} + \sqrt{225}$

Q12. Find the value of the following correct upto 3 decimal places if $\sqrt{3} = 1.7320$

$$\sqrt{5 + 2\sqrt{6}} + \sqrt{5 - 2\sqrt{6}}$$

Q13. If $\sqrt{57 + 12\sqrt{15}} = a\sqrt{3} + b\sqrt{5}$, find the values 'a' and 'b'.

Q14. Express $2.2\overline{3}$ - $0.3\overline{21}$ in $\frac{p}{q}$ form.

Case Study Question:

Q15. Aarushi and Avni are playing with matchsticks by making different geometrical figures. Avni kept 2 matchsticks horizontally and then one matchstick vertically as shown in the figure and then asks Aarushi to join the open ends of vertically and horizontally placed sticks by a thread. Avni's elder sister, Mira comes and asks them to find the length of the thread, if each matchstick is of unit length.

Aarushi replies that the length of the thread can be found by using Pythagoras theorem and it is equal to

$\sqrt{1^2 + 2^2} = \sqrt{4 + 1} = \sqrt{5}$ units

Using your knowledge about numbers, answer the following questions:

(i) $\sqrt{5}$ is an _____ number.

(ii) The decimal representation of an irrational number is

_____.

(iii) The decimal representation of a rational number can't be

_____.

(iv) The sum of any two irrational numbers is

_____.

Q- 1. "Displacement of an object does not depend on the path followed by it". Justify this statement.

Q- 2. Give an example to show that the state of rest and the state of motion are not absolute, but relative.

Q- 3. Can speed of an object be negative? Can velocity of an object be negative?

Think about the above situation and write your answer. (Also give example in support of your answer)

Q- 4. Which speed is lesser: 1 m/second or 1 km /hour? Give critical analysis in support of your answer

Q-5. While travelling to your favourite destination in your summer vacations by your vehicle, do the following activities.

(i) Note down the initial reading of the odometer.

(ii) Note down the reading of odometer once you finish your journey.

(iii) Record instantaneous speed (speed at given instant or at a point of time) at a place (take two readings)

iv) Calculate average speed for entire journey.

Q-6. A car travels first 50 km with the speed of 40 km/ hour then next 60 km with the speed of 50 km /hour then next 70 km with the speed of 80 km/hour. (I) Calculate the total time for the entire journey? (II)Determine the average speed for the whole journey?

Chemistry

Q- 1With the help of an activity show that matter has mass and occupies space.

Q-2 Describe an activity to show that matter is made up of tiny particles.

Q- 3 Differentiate between solid, liquid and gas on the basis of the following points.

(a)Shape

(b) Volume

(c) Compressibility

(d) Fluidity

Note: Do all question in your homework notebook.

Biology

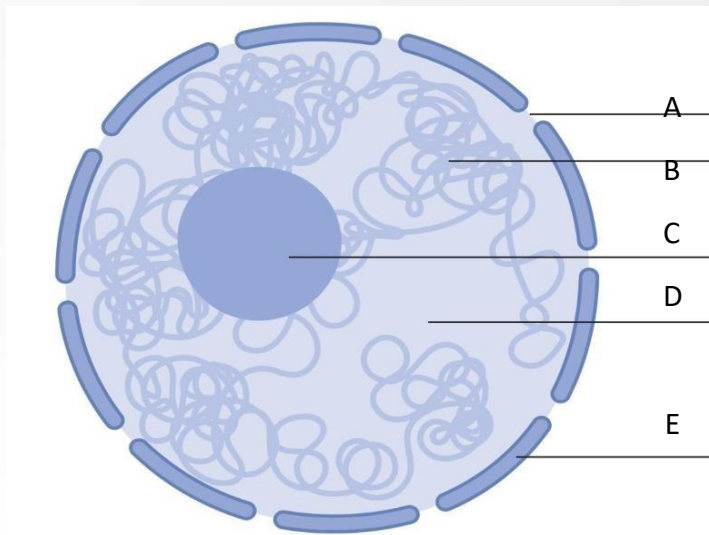Q-1 How did discovery of cell take place? Explain.

Q-2 (a) Write the postulates of the cell theory proposed by Schleiden and Schwann.

(b)   Write postulates of modern cell theory.

Q- 3 With the help of an activity show that the cell is the basic structural and functional unit of all life forms.

Q-4 Make a chart to differentiate between animal cells and plant cells.

Q- 5 (a) Identify A, B, C, D and E in the following diagram. Also write function/functions of each

(a) What is plasma membrane? Write its properties. Why is plasma membrane important for the cell?

Subject: Social Science

Instructions:

- Students are required to compile all the projects into a single document.

- All submissions must be handwritten.

-    Students should incorporate images and provide relevant data as necessary.

Project -1:

Students will prepare a project on a topic related to Disaster Management. It is imperative that the project is handwritten, creative, and informative.

Project-2

Conduct a comparative analysis of the Indian states of Rajasthan and Nagaland, focusing on the following aspects:

1. Geographical location on the political map of India.

2. Climatic conditions

3. Regional languages

4. Religious aspects, including fairs and festivals.

5. Similarities between both states.

Project-3 (Interdisciplinary Project):

Students will prepare a project that encompasses the following components:

1.   A map illustrating the various types of natural vegetation present in India. Creative approaches utilizing color, clay, or other materials to represent vegetation are encouraged.

2.   An examination of the impacts of colonialism and the forest policies instituted by the colonial government on forest biodiversity and the implications for indigenous communities residing in and around forest areas. This research study should make comparisons between forest societies in India and Java.

Assessment criteria will be based on content accuracy, presentation quality, creativity, and the collaborative skills demonstrated throughout the research study.

Subject: Artificial Intelligence

Activity 1: Identify and appreciate Artificial Intelligence and describe its applications in daily life.

Activity 2: Share a minimum of five ideas for a Smart Home. Write them on a sheet and attach images showing AI applications and tools used in smart homes.

Activity 3: Create a Mind Map of AI Concepts

Create a colourful mind map showing key concepts of AI: Machine Learning, Deep Learning, NLP and draw small examples or icons too!

Activity 4: Create a Poster on 'Future of AI'

Make a poster showing how AI could change our world in the next 10–20 years (like self-driving cars, robotic doctors, AI teachers, etc.).

Activity 5:

Create a system map of water cycle using loopy tool and paste the print out in AI portfolio.

Note: Complete all these activities in AI portfolio separate file.

Subject: Drawing & Painting

- Make a poster on the topic -
"Independence Day" on a half imperial size sheet.

Subject:Craft

- Make a big size Rangoli (Mandala Art, acrylic colors) using beads, mirrors, and decorative things.

Greeting card - size A3 only. Don't write any caption inside or outside, just decorate the front of the greeting card.

Use 3D paper flowers, beads, mirrors, ceramic cones, glitters etc.

<div align="center">**Subject: Dance**</div>

Note : questions to be done on A4 size sheet.

Q1. Prepare your own dance on the song "We will rock you".

Q2. Answer in short:

1.   Name any one dance performed at harvest season in India.

2.   Name any two Bollywood and any two Hollywood
movies with dance as their main script.

<div align="center">**Subject: Vocal Music**</div>

Write Biography of Lata Mangeshkar ji.

<div align="center">**Subject: Instrumental Music**</div>

Write biography of Mahmood Dholpuri / Chintu Singh / Ranu
Majumdar in your music copy.