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Dear Children,

It is blazing hot in summer and we begin to look forward for our summer vacations when we can relax and spend quality time with our family and friends or in outings.

Try to develop new skills that will enhance your knowledge and will be lessons for a lifetime. It will be great if you keep some semblance of academics alive in the fun.

Guidelines for students:



1. Ensure timely submission of the given assignment after the school reopens. Remember, a well-presented holiday homework fetches your accolades.
2. Revise all the topics which have been taught by your subject teachers in the new session.
3. Books are companions of lifetime. Read good books, novels, short stories, travelogues etc. During your summer holidays. Your school library is a reservoir of variety of books.
4. Take up an activity at home that is joyful and excites you like sketching, painting, learning any musical instrument or gardening etc.

Guidelines for the parents:

1. Communication skills play a pivotal role in grooming the holistic personality of the children. Please converse with your children preferably in English to acquaint them with the language skills.
2. Please spend quality time with your children engaging them in activities based on enhancing their powers of observation, imagination and creativity.
3. Please sensitize your child about the rich culture and heritage by watching different informative channels, videos or reading books.

Stay Healthy!

Wishing you all a very enjoyable and fun-packed Summer Holidays!

Manisha Kaushal
Principal

SUMMER HOLIDAY HOMEWORK

Class: 9th

English

Creative Activity

1. Make a Poster on:

☞ "Dignity of Labour" (from *The Pot Maker*)

☞ OR "Kindness is a Gift" (from *Gifts of Grace*)

2. Make your own hand fans, take ideas from the chapter. 'Winds of Change'. Display. The hand fan in the class and describe the process used to make it.

Writing Task

3. Read the chapter " Vitamin M' and Write summary of the chapter in your own words (about 150 words)

4. Pottery is practised in many parts of our country and each region has its unique style. Find out about the different styles and write about anyone of them taking ideas from the chapter 'The Pot Maker'. some of them are given below.:

- A) Khurja pottery from Uttar Pradesh
- B) blue pottery from Jaipur,
- C) Terrakota from West Bengal
- D) Andretta pottery from Himachal Pradesh,
- E) Kaari Gari pottery from Tamil Nadu,
- F) Lanngpi Black pottery from Manipur

हिंदी

निर्देश-सारा कार्य गृह कार्य पुस्तिका में कीजिए।

प्रश्न -1 दिए गए संकेत बिंदुओं के आधार पर 120 शब्दों में अनुच्छेद लिखिए।

ट्रैफिक जाम की समस्या

*ट्रैफिक की समस्या का आधार *लोगों की जल्दबाजी और व्यवस्था की कमी। *सुधार के उपाय

प्रश्न -2 नवी कक्षा में हिंदी विषय के चयन तथा आज के युग में हिंदी की उपयोगिता बताते हुए विदेश में रहने वाले मित्र को लगभग 120 शब्दों में पत्र लिखिए।

प्रश्न-3 निम्नलिखित शब्दों से मूल शब्द और उपसर्ग अलग करके लिखिए।

अछूत, भरपेट, परहित, चौपाल, सकुशल, उनसठ, प्रत्येक, प्रवचन, परोपकार, खुशनसीब

प्रश्न-4 निम्नलिखित शब्दों से मूल शब्द और प्रत्यय अलग करके लिखिए।

कठिनाई, वैज्ञानिक, भौगोलिक, संपादकीय, रसीला, भारतीय, पंडिताई, समझदार, सामाजिक, पहनावा

प्रश्न -5 कल्पना कीजिए कि रैदास के पदों में आई उपमाओं के आधार पर भक्त और आराध्य आपस में बात कर रहे हैं।

इस विषय को आधार बनाकर संवाद -लेखन कीजिए

प्रश्न -6 गंगा पाठ्य पुस्तक में से पाठ 1 बैलों की कथा और पाठ 2 क्या लिखूं में से 5-5 ऐसे शब्द चुनकर लिखिए जो आपके लिए बिल्कुल नए हैं। उन शब्दों के अर्थ लिखिए व वाक्य बनाइए।

प्रश्न -7 निम्नलिखित मुहावरों के अर्थ लिखिए व वाक्य में प्रयोग कीजिए।

हिम्मत हारना, टकटकी लगाना, जान से हाथ धोना, ईद का जवाब पत्थर से देना, दांतों पसीना आना, नाकों चने चबाना, नौ दो ग्यारह होना

प्रश्न -8 गंगा पुस्तक के नाम से प्रेरित होकर, गंगा नदी के सांस्कृतिक, ऐतिहासिक महत्व और इसके संरक्षण पर एक प्रोजेक्ट फाइल बनाइए। (अनुक्रमांक 1 से 19)

प्रश्न -9 झांसी की रानी देशभक्ति कविता पर आधारित एक सुंदर चार्ट , पोस्टर या कोलाज बनाइए।(अनुक्रमांक 20 से 38)

प्रश्न- 10 इकाई परीक्षा-2 का पाठ्यक्रम याद कीजिए।

इकाई परीक्षा- 2 पाठ्यक्रम

गंगा (गद्य) पाठ-1 दो बैलों की कथा

(पद्य) पाठ -8 रैदास के पद

व्याकरण - उपसर्ग, प्रत्यय, मुहावरे, विराम चिह्न , अपठित गद्यांश

MATHS

- Q.1 Find a point on y-axis which is equidistant from the point A (6,5) and B (-4,3).
- Q.2 Find a relation between x and y such that P (x,y) is equidistant from the points A (3,5) and B (7,1).
- Q. 3 Find the length of the median through the vertex B of ABC with vertices A (9,-2) , B (-3,7) & C (-1,10).
- Q 4.If (a,b) is the mid point of the line segment joining the points A (10,-6) and B (k,4) and $a-2b=18$, then find the value of k.
- Q.5 Find the coordinates of a point A , where AB is the diameter if the circle whose centre is (2,-3) and B is (1,4).
- Q.6 Prove that the points (-2,-1), (1,0) , (4,3) and (1,2) are the vertices of a parallelogram.
- Q.7 Prove that (4,-1) ,(6,0), (7,2) and (5,1) are the vertices of a rhombus. Is it a square?
- Q.8 If A(-2,-1) ,B(a,0) ,C (4,b) and D(1,2) are the vertices of a parallelogram, find the values of a and b.
- Q.9 Find the circumcentre of a triangle whose vertices are (-2,-3), (-1,0) (7,-6).
- Q.10 Find the value of x such that PQ=QR where the coordinates of P,Q and R are (6,-1), (1,3) and (x,8) respectively.
- Q.11 Insert four rational numbers between -1 and 2.
- Q.12 What are the x-coordinate and y-coordinate of the point of intersection of the two axes?
- Q.13. Find the decimal expansions of $10/3$, $7/8$ and $1/7$.
- Q.14. Use the connection you found to find the coordinates of B given that M(-7,1) is the midpoint of A(3,-4) and B (x,y).
- Q.15 Plot the points A(2,1) ,B(-1,2),C(-2,-1) and D(1,-2) in the coordinate plane. Is ABCD a square?
- Q.16 Write the degree of the given polynomials :
- i) $(2x + 4)^3$ ii) $t^3 + 4)(t^3 + 9)$
- Q.17 The three vertices of a parallelogram, taken in order, are (1,-2), (3, 6) and (5, 10). Find the fourth vertex.
- Q.18 Find the value of x for which the distance between the points A (3,x) and B (4,1) is $\sqrt{10}$ units.
- Q.19 Express $2.\overline{135}$ in the form p/q, where p and q are integers and $q \neq 0$.
1. **Q.20** Express $0.\overline{8} - 0.5\overline{6}$ in the form of $\frac{p}{q}$.
2. NOTE: Learn and write tables from 2 to 25.

Science

GROUP A Roll NO 1 to 13 (PHYSICS)

Project: Make a working model for uniform circular motion or create flashcards with a graph on one side and its description on the other.

GROUP B Roll NO: 14 to 25 (CHEMISTRY)

Real-Life Application Chart

Title: "Where Do We Use Separation Methods in Daily Life?"

Divide chart into sections:

Kitchen → sieving flour, tea filtration

Agriculture → winnowing

Industry → oil refining, water purification

Medicine → chromatography

Note: Add diagrams or drawing to depict the method.

GROUP C Roll NO: 26 to 40 (BIOLOGY)

1. Choose **one Indian scientist**, Prepare a creative chart/poster covering:

- Biography and achievements
- Key discoveries in biology
- Impact on society/environment

2. Conduct a **local biodiversity survey** (plants or animals in the neighbourhood). Classify at least **10 species** into categories (Kingdom → Phylum → Class → Order → Family → Genus → Species).

3. Build a **working model** on **one** of the following:

- Human Respiratory System
- Blood Circulation System
- Neuron and Nerve Impulse Transmission
- Human Kidney- Filtration System

Social Science

1. Project Work: Climate Change

Instructions:

- Prepare a **project file** (10–12 pages) on the topic "*Climate Change*".
- The project should include:
 1. Introduction to climate change
 2. Causes of climate change (natural and human-made)
 3. Effects on the environment (global warming, melting glaciers, etc.)
 4. Impact on human life and biodiversity
 5. Measures to control climate change
 6. Conclusion and your personal opinion

Guidelines:

- Use neat handwriting.
- Include relevant **pictures, diagrams, and charts**.
- Mention sources.
- Decorate the cover page creatively.

2. PowerPoint Presentation: Price Puzzle (Demand and Supply)

Instructions:

- Prepare a **PowerPoint Presentation (10–15 slides)** on the topic: "*Price Puzzle: Understanding Demand and Supply*"

Content to Include:

1. Meaning of demand and supply
2. Law of demand and law of supply
3. Factors affecting demand and supply
4. Concept of equilibrium price
5. Real-life examples of price changes
6. Graphs showing demand and supply curves

Guidelines:

- Use simple language and clear explanations.
- Add **charts, graphs, and images**.
- Keep slides neat and not overcrowded.
- Be ready to present in class.

3. Report Writing: Bengal Legislative Assembly Elections

Objective:

To understand the democratic process and political developments in India.

Instructions:

- Write a **report (3–4 pages)** on "*Bengal Elections*".

Content to Include:

3. Introduction to elections in India

4. Overview of Bengal elections (recent or past)
5. Major political parties involved
6. Key issues during the elections
7. Results and their significance
8. Your opinion on the importance of elections in democracy

Guidelines:

- Write in clear and formal language.
- Include facts and examples.
- Maintain proper structure: Introduction, Body, Conclusion.

Artificial Intelligence

1. The Sustainable Development Goals (SDGs) are a set of 17 global goals adopted by the United Nations General Assembly in 2015 as part of the 2030 Agenda for Sustainable Development.



Create a poster to generate awareness about any one SDG, out of the list of 17 SDGs given above using the software “Canva”. Nothing hand written should be there in the poster. Submit the hardcopy (A4/A3 size) of the poster.

2. **Create Python program SET A list provided, take print out of (code with output) and arrange in practical file. Submit your practical file after holidays.**

