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R.M PUBLIC SCHOOL

(CBSE AFFILIATION NO. 730072)

SESSION: 2024-25

SUMMER HOLIDAYS HOMEWORK

CLASS:- 9th



Dear Students

*Learning is the beginning of wealth. Learning is the beginning of health.
Learning is the beginning of spirituality.*

Searching and learning is where the miracle process all begins.

.....Jim Rohn

The summer vacation, this time would not be ice creams, candies and cool pool, but time can be utilized in honing skills and interests. It is easy to bloom, then to be bud, but you are responsible young members of nation and its our duty to follow rules. Here are some holiday activities designed for creative utilization of time. Give a flight to your imagination and spend time purposely. This summer vacation the holiday homework so designed by the mentors of the school is a medium for you all to achieve the motto of "Fun and Learn".

REMEMBER

- Neatness and hygiene are part of your routine.
- Holidays homework is a part of subject enrichment and will be assessed on the basis of creativity and efforts of the students.
- Its a perfect time to enhance your speaking skills and vocabulary by conversing in English with your family and siblings.
- Reading is essential for those who seek to rise above the ordinary. Spend your quality time with reading purposeful books.
- A beautiful handwriting makes a good impression. Practice one page of English and Hindi writing daily.
- Schedule your time for activities so that there is no piling up for the last moment.
- Holiday homework should be your authentic creative work.

SUBMIT HOLIDAYS HOMEWORK ACCORDING TO THE GIVEN TIME AND SLOT SCHEDULE

DATE	SLOTS	ROLL NO.	TIMING
15-7-2024	FIRST	1 TO 15	08:00 am to 08:30 am
	SECOND	16 onwards	08:30 am to 09:00 am

NOTE: The marks of holiday homework will be included in your Term-1 exam. Kindly deposit the holiday homework on above mentioned slots, later it will not be accepted by the class teacher.

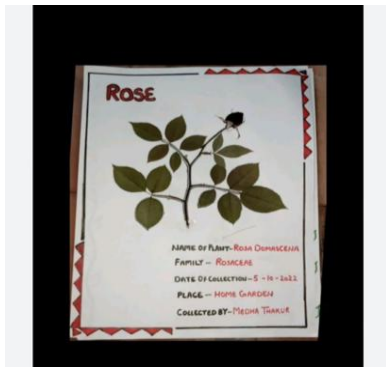
HAPPY SUMMER VACATIONS

Vacations are the best time to relax and enjoy. Summer vacation is the reason behind fun in the Sun, beach and shadow of the umbrella.

- This is to inform all the students that the summer vacation is going to begin from 1ST June, 2024 and will end on 16th July, 2024. The school will reopen on 18th July, 2024 i.e. Thursday.
- We hope you have a fantastic vacation with your family.

SR. No	SUBJECT	ASSIGNMENT	ACTIVITY/ PROJECT WORK	MATERIAL REQUIREDs
1	Chemistry	<p>Q1. Difference between (a) A mixture and a Compound. (b) Compound and element.</p> <p>Q2. (a) Compare the properties of a true solution, a suspension and a colloidal solution. (b) What is meant by a saturated solution of sugar in water? What will happen when such a solution is cooled?</p>	<p>Activity 1 - Pay a visit to any manufacturing unit making bread and biscuits(odd roll numbers) (a) Identify the various substances used in unit (b) Prepare a report on its various steps involved in the manufacturing process</p> <p>Activity 2– a) Have a visit and study the process of water purification in water works of your city(even roll numbers) (b) Draw a flow sheet diagram showing various steps in purifying water for city supply.</p> <p>Project- prepare a colloidal solution of starch in water and study its properties in relation to: (a) Transparency (b) Light scattering (c) Filterability (d) Sedimentation</p> <p>Note: part (a) and (b) for odd Roll no's Part (c) and (d) for even Roll no's.</p>	Project file, A4 size colourful/ assignment sheets etc.

2	Biology	<p>1. What are meristematic tissues? Explain with the help of suitable diagram. Give their classification on the basis of their position in the plant body.</p> <p>2. Write the functions of parenchyma, collenchyma and sclerenchyma?</p>	<p>Activity:- Theme – Health and hygiene</p> <p>1. Conduct a survey in your neighbourhood and find out what are the most common diseases and prepare a file and also suggest the possible precautions to bring down the incidence of these diseases.</p> <p>2. Project work:-For odd roll no's– Model of Neuron or Nervous tissue. (material – Cardboard, coloured sheets, etc) Led lights can be used to make it more better.</p> <p>For even roll no's– Make a herbarium from plants of your locality.</p> <p>Note: Herbarium is a collection of plant samples preserved for long-term study, usually in the form of dried and pressed plants mounted on paper.</p>	<p>Material required – plants, A4 size sheets, talc sheet</p>
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3	Physics	<p>1. A truck of mass 'm' is moved under a force 'F'. If the truck is then loaded with an object equal to mass of truck and driving force is halved, then how does the acceleration change.</p> <p>2. A bullet of 10g strikes a sand bag at a speed of 10^3m/s and gets embedded after travelling 5cm. Calculate.</p> <p>a) The resistance force exerted by sand on bullet.</p> <p>b) time taken by the bullet to come in rest.</p> <p>* Revision of complete Motion chapter.</p>	<p>Activity- law of conservation of momentum using marbles, thread and wooden block or cardboard block.</p> <p>Project- Home made roller coaster:</p> <p>(a) Design and build a miniature roller coaster using materials like cardboard, marbles and tape. Experiment with different heights, loops to understand concepts like potential energy and kinetic energy</p> <p>(For odd roll no's)</p> <p>(b) Water wheel: build a water wheel using water holding materials like popsicle sticks, paper cups and a small stream of water. Experiment with different designs to maximize the wheels efficiency in converting water flow into mechanical energy (for even roller no's)</p>	Cardboard, practical file, colourful sheets/ assignment sheets etc.
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4	Maths	<p>1. The sum of two angles of a triangle is 80° and their difference is 20°. Find all the angles.</p> <p>2. In a triangle ABC, If 2 times angle A is equal to 3, angle B is equals to 6 times angle c, determine angle A, B, C.</p>	<p>Activity-</p> <p>Factorization of quadratic polynomial using cardboard and colours</p> <p>Project -</p> <p>Working model on Pythagoras theorem</p>	<p>Cardboard, colourful sheets, colours etc.</p>
5	A.I.	<p>1. Share a minimum of five ideas about Smart Home and write them on the sheet.</p> <p>2. How do you think Artificial Intelligence can help you as you go about your daily life? Write them on the sheet.</p>	<p>Create a project on A4 paper that covers the following topics:</p> <ul style="list-style-type: none"> • Introduction to AI • Types of AI • Purpose of AI • Uses of AI • Advantages and disadvantages of AI • Applications of AI 	<p>Instructions for file:</p> <ol style="list-style-type: none"> 1. Take portfolio folder. 2. Prepare a title page including school name, your name and class & section. 3. Insert an acknowledgement page. 4. Write the steps and paste screenshots for each activity on a separate page. <p>Search on Below AI Project for Development</p> <ul style="list-style-type: none"> • Emotion recognition: • Chatbot

6	S.Sc	<p>Q1. Write any five arguments in favour and against democracy.</p> <p>Q2. How was slavery abolished in France? (Draw timeline data, paste pictures and draw flow chart)</p> <p>Note: Do Q1 and Q2 on A4 size sheets.</p>	<p>Q. Prepare a model on the topic village Palampur.</p>	<p>Cardboard, scale, Scissor, plastic, Glue Newspaper, Grass, Colors, waste material etc.</p>
7	English	<p>"Literary Adventure: Explore, Imagine, Create"?</p> <p>Q1. What value does the life of Einstein in 'A Truly Beautiful mind' teach?</p> <p>Q2. 'Decisions should be made with a cool and rational mind.' Discuss with reference to the story 'In the Kingdom of fools.'</p> <p>Q3. What is a Travel Journal? Explain its benefits.</p> <p>Q4. Revise the syllabus of PA1 done in the class</p>	<p>1. Maintain a diary during your summer vacations journaling your travel. Make sure your journal is interesting and attractive.</p> <p>(For Odd roll numbers)</p> <p>2. Maintain a diary during your summer vacations journaling your entire day at home. Make sure your journal is interesting and attractive.</p> <p>(For Even Roll numbers)</p>	<p>Glue, colourful pencils, sketch colours, colourful sheets, colourful chart and a small diary. Cover the diary beautifully and properly.</p> <p>(Mandatory for all students.)</p>

8. हिंदी

प्र० 1. 'जलियाँवाला बाग' में कौन-सी घटना हुई थी? जानकारी एकत्रित करके A4 साइज शीट पर लिखिए।

प्र०2. कल्लू कुम्हार का नाम उनाकोटी से किस प्रकार जुड़ा - इस विषय पर जानकारी एकत्रित करके A4 साइज शीट पर लिखिए।

गतिविधि:

1. सूर्यमंडल में नौ ग्रह हैं। शुक्र सूर्य से क्रमशः दूरी के अनुसार दूसरा ग्रह है और पृथ्वी तीसरा। A4 साइज शीट पर चित्र सहित अन्य ग्रहों के नाम क्रम में लिखिए।

2. आगे बढ़ती हुई किन्हीं पाँच भारतीय महिलाओं के चित्र चिपकाकर उनसे संबंधित दो-दो पंक्तियाँ लिखें। ['A4' शीट पर]

मॉडल



* जल प्रदूषण पर एक मॉडल तैयार कीजिए।

9. Urdu

1. انشائیہ گزرا ہوا زمانہ میں لڑکا کیا خواب دیکھتا ہے؟ اپنے الفاظ میں بیان کریں:

2. افسانہ حج اکبر میں شامل عباسی اور شاکرہ کے کردار میں فرق واضح کریں:

سرگرمی-

1. اسم معرفہ اور اس کے اقسام کا ایک دیوار لٹک بنائیں: (لٹک کو بنانے کے لیے

کپنجی، گوند، الگ الگ رنگ، اون، کاغذ، لکڑی کی چھڑی وغیرہ سامان ہونا چاہیے)

2. مہاتما گاندھی کی ایک تصویر بڑے سے چارٹ پر بنائیں اور ان کے بارے میں پانچ سطریں بھی

لکھیں:

Note:

- Revise all syllabus done till date.
- Do all holidays homework in separate notebook/sheets.

Regards

Vice Principal