HERITAGE CHILDREN ACADEMY

(Senior Secondary School Affiliated to CBSE, New Delhi)

NH-24, Jalif Nagla, Teh- Milak, Dist. Rampur (U.P) 244701

SESSION : 2024-25

SUMMER VACATION Homework

CLASS: IX

Holidays are the most anticipated time of the year for everyone. I hope you enjoy it a lot next to your family and when you come back you will tell us your best experiences. Beat the heat by drinking lemonade, coconut water and eating Fresh fruits. We wish you a very happy and a fruitful family time during this summer vacation. The school is closed for summer vacation from 28th **May to 30th June, 2024 for Class IX.**

GENERAL INSTRUCTIONS FOR ASSIGNMENT-

- It is summer vacation time again, a time to relax as well as to get fruitfully occupied in various scholastic and co-scholastic areas. Keeping this in mind, we have designed interesting Projects/Assignments to be completed during the summer vacation. This would encourage in-depth learning, strengthen concepts and prepare ground for improved academic output.

- It will not only enable you to recapitulate what was taught but will also help you to connect yourselves to the various learning processes. These projects will be assessed as Subject Enrichment Activity for Term I.

- Dear parents, kindly motivate and lend support to your children and ensure that they complete the given work well in time and to the best of their ability. Your encouragement can actually make a huge difference to the ultimate learning outcome of these projects.

- During the break Inculcate healthy eating habits in your children, give them fruits and balanced diet with vitamin C and ask them to get up early in the morning.

Do breathing exercise/Yoga daily.

ENGLISH

Question 01:- Choose any one classic animated film like "The Lion King" (1994), "Hotel Transylvania" (2012), or "Frozen" (2013), or "Finding Dory" (2016)

After watching the movie, write a short analysis focusing on:

- **Plot:** Briefly summarize the main storyline and key events.
- **Characters:** Identify the main characters and describe their personalities, motivations, and how they develop throughout the story.
- **Themes:** Analyze the main themes explored in the movie, such as coming-of-age, environmentalism, or the importance of family.
- **Message:** Explain the overall message or lesson the movie conveys to the audience.

Q2:- Write the basic rules of grammar, such as tenses, sentence structure, and parts of speech, with some examples.

RUBRICS

Content (4 marks):

- Accuracy (2 marks): Information presented is accurate and relevant to the assigned topic.
- Comprehensiveness (2 marks): The assignment demonstrates a good understanding of the key concepts and covers all required elements.

Presentation (3 marks):

- Organization (1 mark):
- Neatness and Presentation (1 mark)
- Creativity (1 mark)

Effort and Completion (3 marks):

- Completion (2 marks): The assignment is complete with all required sections addressed.
- Effort (1 mark): The work demonstrates effort and time invested (e.g., evidence of research, quality of resources used).

HINDI

प्रश्न - निम्नलिखित बिंदुओं के आधार पर एक प्रोजेक्ट फाइल तैयार करें -

- विभिन्न लेखन कार्य
- चित्रण कर भाषा शैली का विशेष ध्यान रखें"।
- पाठ 'पत्र लेखन, अनुच्छेद लेखन, लघुकथा, ई-मेल लेखन, संवाद लेखन पर एक पोर्ट फोलियो तैयार करें ।

  RUBRICS

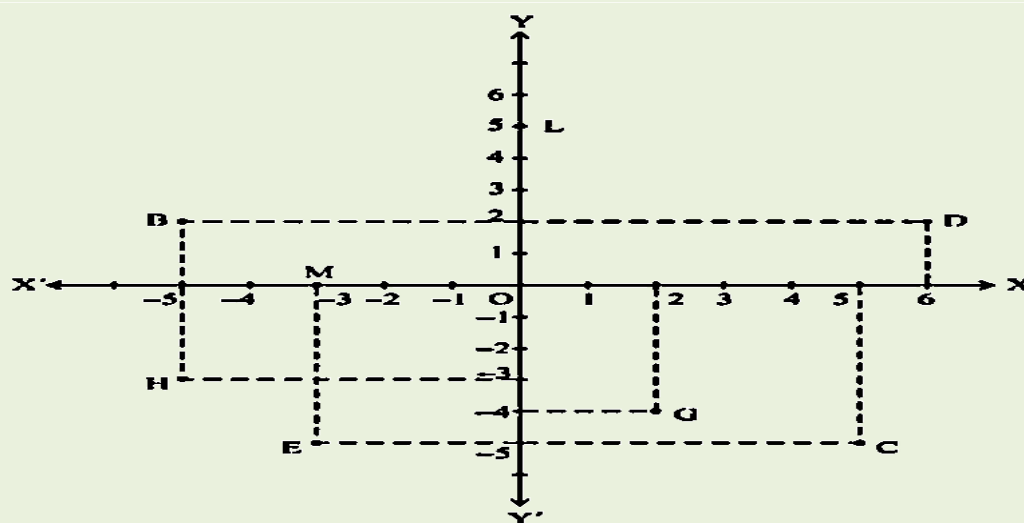 अभिव्यक्ति + सौंदर्यकरण + विषय ज्ञान = 2+2+6=10

MATHS

Instructions:

a) Revise all questions and examples of chapter 1,2 ,3,4 and 5 then solve the following questions.

b) Do the holiday homework in separate holiday homework notebook.

QUESTIONS:

1) The decimal representation of a rational number is
   a) Always terminating
   b) Either terminating or repeating
   c) Either terminating or non repeating
   d) Neither terminating nor repeating

2) Factorise : $2y^3+y^2-2y-1$.

3) Show that $0.2353535\ldots\ldots = 0.2\overline{35}$ can be expressed in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$

4) See fig. ,and write the following :
   a)   The coordinates of B.
   b)   The coordinates of C.
   c)   The points identified by the coordinates (-3,-5).
   d)   The coordinates of the point M.
   e)   The abscissa of the point D.
   f)   The ordinates of the point H.

5) Verify that :

$$x^3+y^3+z^3-3xyz= \frac{1}{2} (x+y+z)[(x-y)^2 + (y-z)^2 +(z-x)^2]$$

6) The taxi fare in a city is as follows: For the first kilometer, the fare is ₹8 and for the subsequent distance it is ₹5 per km. Taking the distance covered as X km and total fare as ₹y , write linear equation for this imformation and draw its graph.

7) Represent $\sqrt{9.3}$ on the number line.

b) Simplify :

   i. $(\sqrt{5} + \sqrt{2})^2$
   ii. $(125)^{-1/3}$

8) Rationalise the denominator of $\frac{1}{(7+3\sqrt{2})}$.

9) Find the value of K, if x=2, y=1 is a solution of the equation 2x+3y=K.

10)   Write the four solution for $\pi x + y = 9$.

Rubrics
- Presentation   = 5M
- Content   = 5M

PHYSICS

Prepare a Project file on the topic of Laws of motion and write some applications of laws of motion.

Rubrics
- Presentation of first law of motion and it's application   =03
- Second law of motion and it's application   =03
- Third law of motion and it's application   =03
- Time management   =01
- Total marks   =10

CHEMISTRY

Make a project file on the topic Evaporation.
- Format of project
- Topic of project
- Definition
- Factors affecting evaporation
- Procedure- Do the evaporation with all the factors affecting evaporation
- Observation- Write all observation in a tabular form and plot graphs of evaporation with all affecting factors.
- Conclusions- Write a conclusions which you have obtained by your experiments of evaporation.

Rubrics
- Presentation   = 5M
- Content   = 5M

BIOLOGY

Create an art integrated Project file on-

1. Write the contribution of following scientist in the study of the cell-
   a) Robert Hooke   b) Purkinje
   c) Robert brown   d) Schleiden & Schwann.

2. State the main functions of each of the following components of the cell.
   a) Plasma membrane   b) Mitochondria
   c) Nucleus   d) Ribosome.

3. Draw the diagrams of plant cell and animal cell. Label the cell organelles present in them.

4. Name the types of plastids more common in-
   a) Leaves of plant   b) Colourful flowers   c) Root of plants

Note:- Holiday homework should be on A4 size colorful sheets.

Rubics

- Presentation about plant & animal cell = 03M
- File Creativity = 03M
- Content =03M
- Writing = 01M
- Total = 10M

SOCIAL SCIENCE

Prepare a project file on Disaster management

Subtopics:- aims to reduce, or avoid the potential losses from hazards, assure prompt and appropriate assistance to victims of disaster, and achieve rapid and effective recovery.

Rubrics

- Content : 05M
- Presentation : 03 M
- neatness. : 02 M

INFORMATION TECHNOLOGY

- Write your resume/ Bio Data and apply different styles on it,
- What are Styles? What are the advantages of using styles
- Create a Poster on Health and Hygiene
- List any three methods of inserting images in a text document.
- Insert an image to document from various sources.

Rubrics :

- Designing : 05Mark's
- Formatting : 03Mark's
- Printputs : 02Mark's

"Your future is created by what you do today, not tomorrow."

DP