



SUMMER VACATION HOLIDAY HOMEWORK

CLASS – IX

(2024-25)

Holiday Homework is an attempt to channelize the creative energy of the children . Doing it in the right- spirit with enthusiasm will make it a great learning experience .

Dear Parents,

Warm greetings . The time spent in school is always cherished with lots of fun filled activities ; making new friends and learning new things .We hope that our students also enjoyed themselves in school as much as we enjoyed having them with us . You might have noticed that they all loved to come to school . For the next one and a half month , you , their natural guardian will spend the vacations with them. Let's share some tips to make this period a fruitful and happy period for them.

- **Have at least two meals together with your children. Teach them the importance and hard work of the farmers and ask them not to waste their food .**
 - **Let them wash their own plate after every meal . Children learn dignity of labour from such activities.**
 - **Allow them to help you in cooking. Let them make their own vegetable and fruit salad .**
 - **Encourage them to learn 5 new words in English and list them in a note book .**
 - **Visit 3 neighbours . Know more about them and build a rapport with them .**
 - **Visit the grandparents and let your children bond with them . Their love and emotional support is very important for your child . Click snaps with them.**
 - **Take them to your workspot and let your child understand that you work very hard to support the family.**
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- **Do not miss the local festival and local market.**
 - **Gently encourage your child to raise the kitchen garden by planting seeds . Knowledge about plants and trees are an integral part of your child growing up**
 - **Share stories about your childhood and your family history**

Dear Students,

We know that when you think of summer , you always think of fun filled activities such as playing for longer hours , exploring new places , watching movies etc. Guess what ; this holiday homework lets you do all these things and more.

Studies are important for us to gain knowledge , and sports are important to keep active , healthy and various personality traits such as leadership , team spirit , responsibility and many more . With this thought in mind , this year , we teachers have designed your holiday homework to keep you actively and fruitfully engaged during Summer Break

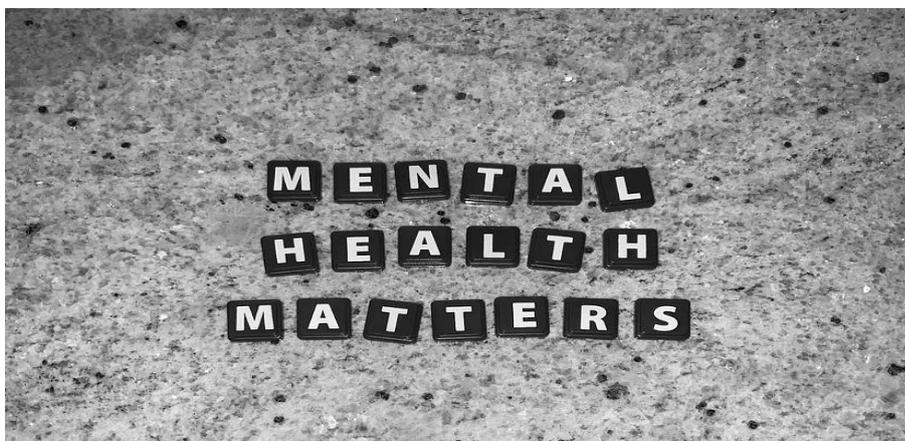
Though we will miss you and your chatter and laughter definitely , we wish you a HAPPY AND HAPPENING SUMMER BREAK ! Enjoy and take care of yourself !



General Instructions

- Don't bring Home Work on the first day of reopening of the school . The dates for bringing the home work will be intimated later .
- Use Eco Friendly material only for making the models .

SUBJECT : ENGLISH



A stigma is a mark of disgrace associated with a particular circumstance, quality, or person. Stigmas are often not fair or accurate. To destigmatize mental health is to remove the shame or disgrace associated with it. By destigmatizing mental health care, we can encourage more people to seek help when they need it, reducing the burden on individuals and society.

Read the following chapters from the prescribed books for the session and write your perspective about the mental/ psychological situations the protagonists(Main Character) go through.

- 1. The Last Leaf**
- 2. A House is not a home**

TASKS:

1. Make a story line of the chapter followed by the Analysis of the chapter and your perspective about the same.

2. Write a Conversation between the two protagonists, Johnsy from The Last Leaf and Zan from A House is not a home about how they dealt with the hopeless and reignited the spirit to live again. (200 Words)

3. GRATITUDE JOURNALING

The Activity: Gratitude journaling involves writing down things you are grateful for each day. This simple practice can be done in a dedicated gratitude journal. Maintain a journal where you pour your emotions at least three to four times a week.

How It Helps: Practicing gratitude has been shown to improve mental health by promoting positive emotions, enhancing empathy, and reducing stress. By regularly focusing on the positive aspects of life, you can cultivate a more optimistic outlook and improve overall life satisfaction.

II. Complete the provided worksheets .

III. Revise the entire Syllabus for PA I.

MATHEMATICS

1. What is the role of mathematics in Healthcare?

2. Mathematics Activity:

i. Use Pie chart, bar graph to perform these activities includes mental health awareness and de-stigmatization.

ii. Verify the Algebraic identity $(a + b)^2 = a^2 + 2ab + b^2$ in your activity file

3. Make charts and files for this activity.

4. Do assignment for practice in worksheet register: (Number system, polynomials, Co-ordinate Geometry)

1) Which of the following is a rational number?

a. $1 + \sqrt{3}$ b. π c. $2\sqrt{3}$ d. 0

2) Zero of the zero polynomial is

a. 0 b. 1 c. every real number d. not defined

3) What is the degree of the polynomial $\sqrt{3}$?

a. 0 b. 1 c. $\frac{1}{2}$ d. 2

4) If the coordinates of a point are (2,0), then it lies in:

a. X-axis b. Y-axis c. At origin d. Between x-axis and y-axis

5) Signs of the abscissa and ordinate of a point in the fourth quadrant are respectively

a. (+, +) b. (+, -) c. (-, +) d. (-, -)

6) Abscissa of a point is positive in

a. I and II quadrants

b. I and IV quadrants

c. I quadrant only

d. II quadrant only

7) Find the zero of the polynomial $p(x) = 2x+1$

8) Write the coefficient of x^2 in $2 - x^2 + 3x^3$

9) The point at which the two-coordinate axis meet is called ____

10) If the y-coordinate of a point is zero then this point always lies on?

11) What is perpendicular distance of the point A (3,4) from the y - axis?

12) Find the value of k, if x -1 is factor of $p(x) = kx^2 - 3x + k$.

13) Use suitable identity to find the product of $(3 - 2x)(3 + 2x)$

14) Rationalize the denominator of $\frac{1}{\sqrt{5}+\sqrt{2}}$

15) Simplify: $(\sqrt{11} - \sqrt{7})(\sqrt{11} + \sqrt{7})$

16) Factorize: a) $4x^2 + 9y^2 + 16z^2 + 12xy - 24yz - 16xz$

b) $6x^2 + 17x + 5$

17) Case Study

An object which is thrown into air subject to only acceleration of gravity is called 'projectile', and its path is called trajectory. This curved path was shown by Galileo to be a parabola. Parabola is represented by a polynomial. If the polynomial to represent the distance covered is given by $P(t) = 5t^2 - 2t + 1$.

Answer the following questions:

1. What is degree of the polynomial $P(t) = 5t^2 - 2t + 1$?

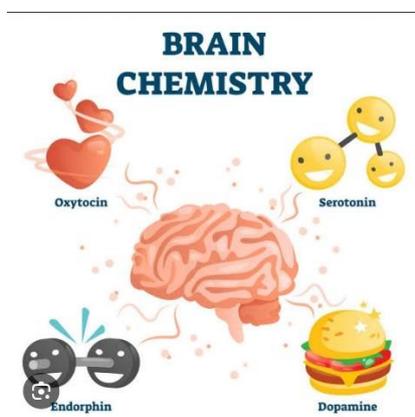
2. What is the name of the polynomial on the basis of degree?

3. Find the value of $P(t) = 5t^2 - 2t + 1$ when $t = 2$.

SCIENCE

Activity 1 and 2 are group activity (Groups will be decided in class)

1. Make a poster to show the effect of neurotransmitters on brain work and actions

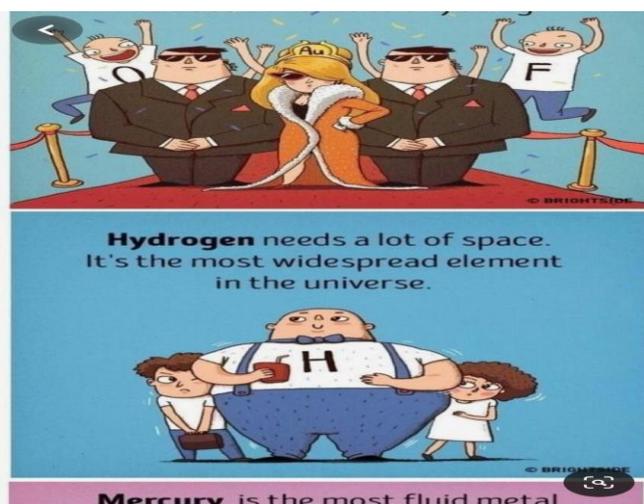
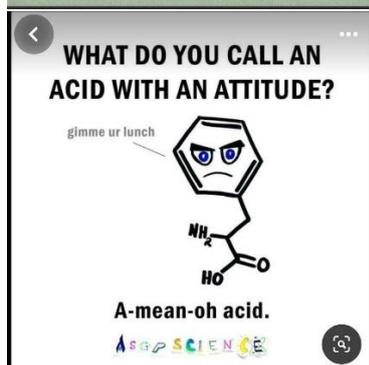
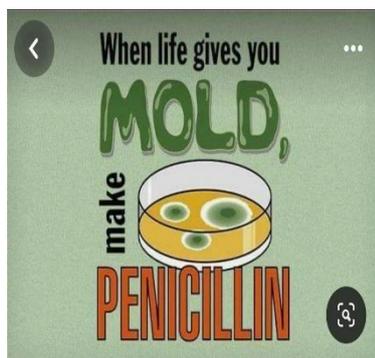
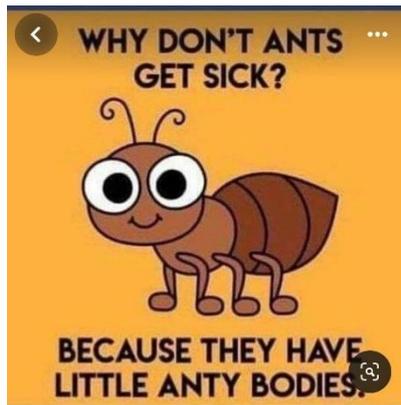


2. Make a PowerPoint presentation to show:

A. The various mental disorders and symptoms

B. Physical tools and gadgets are made to help persons suffering from these types of disorders.

3. Make scientoon using mount board with toon / comic strip on one side and its explanation on other side. (Sample attached)



4. Perform a simple science experiment using household material and prepare its related explanation.

Links are attached for your guidance.

<https://youtu.be/nNwfcUA2xpM?si=se79EwAE94TUaHMJ>

5. Revise all the chapters done so far for PA 2

6. Complete the question bank of chapter done so far.

SOCIAL SCIENCE

1. Trace the History of mental health in India. Make a time line on it.

HINDI

कक्षा 9 हिंदी ग्रीष्म अवकाश गृह कार्य

1. तनाव मुक्त रहने के संबंध में मनोचिकित्सक

और अवसाद रोगी के बीच संवाद लिखें

2. मानसिक अवसाद क्या है? हम इसे कैसे उबर सकते हैं। इस संबंध में अपने छोटे भाई को पत्र लिखें ताकि वह तनाव मुक्त रह सके।

3. एक प्रेरक कविता लिखें और याद करें समय अवधि **2-3** मिनट