# TAGORE PUBLIC SCHOOL, PALWAL
# HOLIDAY HOMEWORK : 2023-24
## CLASS : 8

*Summer Holidays* are here again. It is the best time to rejuvenate and get ready for the coming months to put in the hard work. We have kept theme of the vacations "Health and Nutrition." Covid has already taken a toll on the health of students due of lack of activities. While doing creative home work especially designed for vacations, you will learn about many aspects of diet, nutrition, exercise, walk etc.

At the same time you must take rest, drink a lot of water and fresh juices, eat healthy, but do not indulge in over eating. Follow a routine to exercise and practice yoga to stay fit and healthy. Stay indoors, wear loose comfortable clothes and take care of yourself. Enjoy this family time together and collect happy memories.



*Do not forget to keep pots filled with water and grains for the birds. Clean the pot every day and fill it with fresh water. Keep a bigger pot for cows and dogs outside your house and fill it with fresh water every day.*



**Note:** (i)  Please note that holiday homework will carry 5 marks for each subject. Hence, while doing your home work, follow the instructions carefully.

(ii)     • Use a separate notebook to do Maths assignment.
         • Use a thin notebook to do work, if required, to be done in the notebook. (subject wise)

(iii)    The homework should be done neatly and sincerely.

(iv)    Please ensure that the work should be done by you in your own handwriting.

(v)    **Keep a pack of A-3 size pastel sheets ready for doing projects/poster given in the holiday homework.**

(vi)    Holiday Homework must be submitted as per the given schedule :
        05.07.2023    - English              06.07.2023  - Maths
        07.07.2023  - Science              10.07.2023  -  S.St.
        11.07.2023  - Hindi and Computer

**Note : Learn and practice the work done for 1st Unit Tests to be held in the months of July & August for all the subjects.**

## भोजन मंत्र

ॐ सह नाववतु सह नौ भुनक्तु। सह वीर्यं करवावहै।

तेजस्विनावधीतमस्तु मा विद्विषावहै। ॐ शान्ति:! शान्ति:! शान्ति:!!!

# ENGLISH

1. Write 1 page handwriting daily. The theme can be 'Morning Walk, Exercise, Yoga, Health, Hygiene, Cleanliness, Good Habits etc.'

2. Design a colourful poster on 'Eat Healthy, Stay Healthy'. The aim of your poster is:
   (i) To convince the peers/ friends to improve their Eating habits and its role in the prevention of life style diseases.
   (ii) Create a Slogan and the name of the celebrity whose name will help to create a better impact.

3. Paste your photo in your English Homework Notebook while preparing any nutritious salad or dish and write a paragraph in 80-100 words on 'HARNESS THE GOODNESS'.

4. MAKE A MENU CARD:- Healthy Food is important for Healthy body and mind. Create a menu card for a newly open restaurant, publicizing a most nutritious and creative food to be introduced.
   Use only A3 size coloured sheet folded appropriately to design your menu card. The menu should have a few healthy starters; Juices, Salads, main course and desserts. On the cover of your menu write the name of your restaurant, address and phone number.

5. Eating a balanced diet during Childhood is very important. Nutritional deficiency leads to many dishes and deficiencies. Write a moral based story on the topic 'Health is Wealth' which must contain how the characters face difficulties due to malnutrition and overcome that.

6. Follow a routine of early morning walk, exercise and yoga and meditation along with your family. Make a collage of your morning activities on A3 size sheet.

7. Read the following story from the book 'Stories Forever' as per the given roll numbers.
   Roll No. 1 -10          - The Secret to Happiness and Success
   Roll No. 11-20         - Animal Farm
   Roll No. 21-30         - The Freedom Fighter of Burma
   Roll No. 31 onwards  - A Holiday Task
   (i) Answer the 5 Ws – What, Where, When, Who (Whose, Whom) and Which in a thin notebook.
   (ii) Draw the character you liked the most.
   (iii) Prepare yourself to take part in a group discussion after the holidays in the class.
   (iv) If you are the write of the story, what changes you would like to make in the story.

**Note : Learn and practice the work done for 1st Unit Tests to be held in the months of July & August.**

# HINDI

1. अपनी दस मनपसंद स्वाथ्यवर्धक चीजों का A3 साईज का चार्ट बनाएं जो आपको नाश्ते, दोपहर के भोजन व रात्रि के भोजन में अच्छी लगती है। उनके लाभ भी लिखो।

2. माँ बच्चे को उसके लंच–बॉक्स में अधिकतर उनकी पसंद की चीजों को देती हैं। आप और आपके मित्र/सखियाँ लंच–बॉक्स में क्या–क्या लाते हैं जो आपको पसंद है। उन खाद्य पदार्थों के चित्र बनाकर या चिपका उन्हें स्वास्थ्यकारी तथा जंक फूड की श्रेणी में बाँटकर उनके विषय में A3 साईज शीट पर लिखें।

3. प्रतिदिन एक पेज सुलेख लिखिए। सुलेख अच्छा स्वास्थ्य, पौष्टिक आहार, व्यायाम, सुबह की सैर, योग मुद्राओं पर आधारित हो। कम से कम 20 पेज लिखने अनिवार्य हैं।

4. मानव शरीर के लिए आवश्यक पौषक तत्व कौन–कौन से हैं? इनके स्त्रोत क्या हैं? A3 शीट पर चार्ट बनाएँ।

5. पोषक तत्त्वों की कमी से कौन–कौन से रोग हो जाते हैं? किन्हीं पाँच रोगों का संक्षिप्त वर्णन करें।

6. विज्ञापन बनाइए –
   अनुक्रमांक 1 – 10     योग दिवस          अनुक्रमांक 11 – 20     जल बचाओ, जीवन बचाओ

7.  'जीवन में व्यायाम का महत्त्व' पर 200 शब्दों का लेख लिखें।

8.  अपनी पुस्तक 'बातें नई पुरानी' से अपने रोल नं0 अनुसार कहानी पढ़ें और उसमें से नए शब्दों के अर्थ जानने की कोशिश करें। छुट्टियों के बाद हम कहानी पर चर्चा करेंगे।

रोल नं0 1–10   पंच परमेश्वर         रोल नं0 11–20  अंति पत्ता

रोल नं0 21–30  श्रद्धा से खिलवाड         रोल नं0 31 onwards   भारत एक खोज

**Note : Learn and practice the work done for 1st Unit Tests to be held in the months of July & August.**

# MATHEMATICS

**Q1.** If $p = \frac{5}{6}$, $q = \frac{-7}{6}$ and $r = \frac{13}{16}$, then verify that $(p + q) + r = p + (q + r)$

**Q2.** $\frac{2}{7} + \frac{(-5)}{9} + \frac{(-11)}{7} + 1 + \frac{(-4)}{21} + \frac{(-3)}{9}$ rearrange suitably and find the sum.

**Q3.** Subtract the sum of $\frac{-5}{3}$ and $\frac{-8}{7}$ from the sum of $\frac{3}{2}$ and $\frac{-31}{28}$.

**Q4.** Smita bought $3\frac{1}{2}$ litres of milk. She uses $1\frac{3}{4}$ milk to make a sweet dish. How much milk is left with her?

**Q5.** Multiply $\frac{5}{11}$ by multiplication inverse of $\frac{-35}{66}$.

**Q6.** Divide the sum of $\frac{-3}{4}$ and $\frac{5}{13}$ by the difference of $\frac{2}{3}$ and $\frac{3}{11}$.

**Q7.** Find four rational numbers between $\frac{-1}{7}$ and $\frac{2}{7}$.

**Q8.** Eleven times the reciprocal of a number plus $\frac{4}{5}$ is 1. Find the number.

**Q9.** Find the area of a rectangle whose length is $15\frac{1}{3}$ m and breadth is $8\frac{1}{2}$ m.

**Q10.** Malti donated $\frac{1}{20}$ of her salary to a widow ashram, $\frac{1}{5}$ of her salary was spent on school fee of the children, $\frac{1}{6}$ of the salary on food. After these expenses, she was left with Rs 21000. Find her monthly salary. Is it a good habit to donate to needy people?

**Q11.** What should be added to $\left(\frac{1}{2} + \frac{1}{3} + \frac{1}{5}\right)$ to get 3?

**Q12.** What should be subtracted from $\left(\frac{3}{4} - \frac{2}{3}\right)$ to get $\frac{-1}{6}$ ?

**Q13.** Express as a rational number of the form $\frac{p}{q}$: $\frac{15}{2} + \frac{9}{8} + \frac{-11}{3} + 6 + \frac{-7}{6}$

**Q14.** Simplify:    $\left(\frac{1}{4} \times \frac{2}{7}\right) - \left(\frac{5}{14} \times \frac{-2}{3}\right) + \frac{3}{7} \times \frac{9}{2}$

**Q15.** If 24 trousers of equal size can be prepared in 54 metres of cloth, what length of cloth is required for each trouser?

**Q16.** Find any five rational numbers less than 2.

**Q17.** Find $(x + y) \div (x - y)$ if $x = \frac{2}{5}$ and $y = \frac{1}{2}$

**Q18.** Verify the property $x \times (y \times z) = (x \times y) \times z$ if $x = \frac{5}{7}$, $y = \frac{-12}{13}$, $z = \frac{-7}{18}$

**Q19.** Verify the property $x \times (y + z) = x \times y + x \times z$ if $x = \frac{-3}{4}$, $y = \frac{-5}{2}$, $z = \frac{7}{6}$

**Q20.** In annual examination of a school, $\frac{3}{40}$ of the total students used unfair means out of which $\frac{3}{4}$ were caught red handed. If number of students who escaped being caught is 15, find the total number of students who appeared in the annual examination?

## Chapter – 3 (SQUARE AND SQUARE ROOTS)

Q1. Express $13^2$ as a sum of consecutive odd numbers starting with 1:

Q2. Find the smallest square number exactly divisible by each of the number 4, 6, 8 and 12.

Q3. In a rally 841 cadets participated. The officer asked them to stand in rows in such a manner, that number of cadets in each row equals the number of rows. How many cadets were there in each row?

Q4. The area of a square is 156.25 sq cm. Find its side.

Q5. The length and breadth of a rectangle are 14 m and 11 m respectively. Find the side of that square whose area is equal to the area of this rectangle.

Q6. The students of class VIII A collected Rs 1764 to give donation to Red Cross Society on Children's Day. If each student donated as many rupees as the number of students in the class, find the number of students in the class.

Q7. A farmer planted 625 mango trees in his garden. He planted the tree in the form of rows. If each row contained a many tree as the number of rows, find the number of rows.

Q8. One member of a Pythagorean triplet is 12. What are the other two members?

Q9. Write a perfect square number between 36 and 64?

Q10. What should be subtracted from $37^2$ to get $35^2$

Q11. Write five numbers which you cannot decide whether they are square just by looking at the unit's digit.

Q12. The product of two numbers is 1575 and their quotient is $\frac{9}{7}$. Find the numbers.

Q13. The area of a square field is 5184 $m^2$. A rectangular field, whose length is twice its breadth has its perimeter equal to the perimeter of the square field. Find the area of the rectangular field.

Q14. Find the least number of six digits which is a perfect square.

Q15. The area of a square field is 60025 $m^2$. A man cycles along its boundary at 18 km/hr. In how much time will be return at the starting point?

Q16. The cost of levelling and turfing a square lawn at Rs 2.50 per $m^2$ is Rs 13322.50. Find the cost of fencing it at Rs 5 per metre.

Q17. The area of a square field is $80\frac{244}{729}$ square metres. Find the length of each side of the field.

Q18. What is the fraction which when multiplied by itself gives 0.00053361?

Q19. Simplify: $\frac{\sqrt{0.2304}+\sqrt{0.1764}}{\sqrt{0.2304}-\sqrt{0.1764}}$

Q20. Find the square root of 11 correct to five decimal places.

## Chapter – 4 (CUBES AND CUBES ROOTS)

Q1. Which smallest number is multiplied with 1125 to get a perfect cube?

Q2. Which smallest number be divided from 5324 to get a perfect cube?

Q3. Find the cube root of -9261 by prime factorization method.

Q4. By the method of finding unit's and ten's digits of cube root, find the cube root of 12167.

Q5. Find the cube root of the following :    (a) 216 x 125000    (b) $-2\frac{10}{27}$

Q6. By what least number will you multiply 10 to get a perfect cube number?

Q7. Find the volume of a cube whose edge is 18 cm.

Q8. Simplify: $(0.3)^3 + (0.2)^3$.

Q9. Write the next number in the series 64, 125, 216, .....?

Q10. Simplify: $\sqrt[3]{\frac{64}{1331}} + \sqrt[3]{\frac{-8}{1331}}$

Q11. Find the cubes of the number 53 using column method.

Q12. Prove that if a number is trebled then its cube is 27 times the cube of the given number.

Q13. Find the volume of a cube whose surface area is 384 m².

Q14. Show that $\frac{-216}{42875}$ I the cube of a rational number. Also, find that rational number.

Q15. Find the cube of: 2.1

Q16. Divide the number 26244 by the smallest number so that the quotient is a perfect cube. Also, find the cube root of the quotient.

Q17. Three numbers are to one another 2:3:4. The sum of their cubes is 33957. Find the numbers.

Q18. Simplify: $\sqrt[3]{8 \times 17 \times 17 \times 17}$

Q19. Evaluate each of the following:

(i) $\sqrt[3]{1000} + \sqrt[3]{0.008} - \sqrt[3]{0.125}$        (ii) $\sqrt[3]{\frac{0.027}{0.008}} + \sqrt{\frac{0.09}{0.04}} - 1$

Q20. Find the side of a cube whose volume is $\frac{24389}{216}$ m³.

**Creative Corner**

1. Write properties of addition and multiplication of rational numbers in a chart paper.
2. On A4 size white sheet make 'Table of perfect square".
3. On A4 size white sheet. Find square root of 81 by successive subtraction method.

OR

On A4 size white sheet. Find cube root of 216 by successive method.

(Number subtracted 1,7,19,37,61,127,169)

**Note : Learn and practice the work done for 1st Unit Tests to be held in the months of July & August.**

# SCIENCE

1. (a) Paste pictures of 10 kitchen tools and write their uses. Roll No. 1 – 15.
   (b) Paste pictures of 10 spices used in kitchen. Roll No. 16 – 30.
   (c) Paste pictures of 10 process used in kitchen and explain them. Roll No. 31 onwards.
   Use A3 size sheets to complete the task.

2. Ancient people use different ways to feel infected cuts and holes. Let information and write a paragraph along with pictures related to the topic on A3 size sheet.
   (a) Egyptians ways of healing. Roll No. 1 – 15.
   (b) Ayurvedic ways to healing. Roll No. 16 – 30.
   (c) Medicinal plants for healing. Roll No. 31 onwards.

3. Make a poster to create awareness among the masses on obesity.

4. **Roll No. 1- 20 :**
   Make a 2D Model of Human Ear. To give 3D effects you can use craft clay. Size A3.
   Mention 5 ways to take care of our ear. Use A3 size sheet.
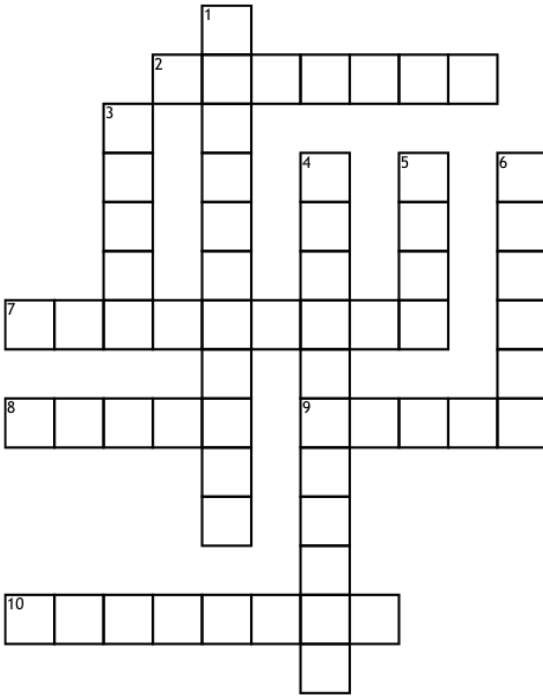   **Roll No. 21 Onward :**
   Make a 2D Model of Human Eye. To give 3D effects you can use craft clay. Size A3.
   Mention 5 ways to take care of our heart. Use A3 size sheet.

5. Make a power point presentation on :
   (a) Harmful micro-organisms
   (b) Beneficial methods of food preservation

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# SOCIAL SCIENCE

1. Make a poster on 'World Food Safety Day'. Make a 3D model of soil profile.
2. On a political map of India locate centres of Revolt of 1857.
3. On an A3 size sheet paste pictures of places of historical importance (any 4) and write their importance.
4. **Roll No. 1- 20 : :** Make a 2D Model 'Terrace Farming' To give 3D effects you can use craft clay. Size A3.

   **Roll No. 21 Onward :** Make a 2D Model 'Compost Kit' To give 3D effects you can use craft clay. Size A3. Write the process of converting kitchen waste into compost. You can try it in a clay pot (Gamla) and bring the ready compost to school in a polythene bag.
5. Make a poster on A3 size sheet to show adverse impact of land pollution on Earth.
6. Solve puzzle :

**Across**

2. The _____ Court of India has devised a mechanism known as Public Interest Litigation (PIL) to increase access to courts.

7. The Chief Justice of the High Court of a state is appointed by the _____ of India

8. _____Panchayat provides justice at village level.

9. These cases can also be solved outside the court.

10. The District Court in a district also acts as _____Court.

**Down**

1. The courts at district level and below are termed as _____Courts

3. The Board of Revenue is the apex revenue court at the _____level.

4. The judges can be terminated from their office through the process of _____.

5. If the Fundamental Rights are violated, the courts can immediately issue a _____for their enforcement

6. No _____can be made against the decisions of the Lok Adalats.

**Note : Learn and practice the work done for 1st Unit Tests to be held in the months of July & August.**

# SANSKRIT

1 क्रोध को केन्द्र बनाकर चक्र में दिए गए शब्दों की सहायता से 5 वाक्यों का निर्माण कर एक A3 साईज का चार्ट बनाईए। अपने चार्ट को एक शीर्षक भी दीजिए।

जैसे – क्रोधः सुखम् नाश्यते।

2. हरी सब्जियों स्वास्थ्य के लिए लाभदायक हैं। किन्हीं 8 हरी सब्जियों के नाम संस्कृत में लिखकर उनसे मिलने वाले पोषक तत्त्वों को A3 साईज चार्ट पर लिखें तथा चित्र भी चिपकाएँ।

3. स्वास्थ्य लाभ हेतु 'सूर्य नमस्कार' के अंतर्गत समस्त मुद्राओं के नाम A3 साईज चार्ट पर लिखें तथा उनके चित्र बनाएँ/चिपकाएँ।

4. 'जौ–गेहूँ–चना' सत्तू अथवा गेहूँ दलिया बनाने की विधि व इससे होने वाले कोई पाँच लाभ A3 साईज चार्ट पर लिखकर लाएँ।

**Note : Learn and practice the work done for 1st Unit Tests to be held in the months of July & August.**

# COMPUTER

1. Artificial is a science of making of making machines that exhibit intelligent behaviour, learn, demonstrate, explain and advisee its users. It works alike the humans and thus is coming as a big challenge of overpowering the human intelligence.
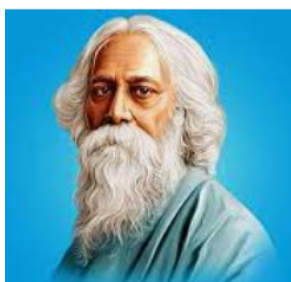
   Write an article "Will Artificial Intelligence Replace Humans" (about 300 words) in Computer notebook.

2. Your are artificial design engineer of a company. Make a flow chart to depict how your coffee and robot teacher would work.

   (i) This machine asks the user to choose between tea or coffee and other related parameters, like with or without sugar, light or strong etc. Then, it listens to the voice commands of the user and performs the operation accordingly. In the end, it delivers the required product.

   (ii) This robot teacher asks the student to choose a topic which he/she wants to learn about from the given options. Based on the choice of the student, the robot will explain the topic with the help of pre-built text and modules. The robot will also ask guiding questions from the students and provide them with the remedial solutions if they are not able to understand the topic. The robot will also assess the understanding of the student by asking an application based question on the topic.

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# LEISURE TIME ACTIVITIES

1. Learn to write a diary. Write down interesting activities that you do, happy moments you spend with family and friends, visits to new places, your observations of your surroundings, new things you learn, anecdotes that made you happy, ceremonies and functions you attend etc. You may write down the incidents in a small diary. This would become a memoir which will give you moments of joy and nostalgia when you read them sometime later in your life.

2. Don't forget to watch the following movies in English :

   (i) Elephant Whispers (ii) I Am Kalam (iii) Chupa (iv) Finding Nemo

   (v) Guardians of Galaxy (vi) How to Train Your Dragon (vii) Kabuliwallah in Hindi

   (viii) The Sound of Music (ix) Wonder

3. Being a Tagorian is a matter of pride for all children. Read about Sh. Rabindranath Tagore to know the importance of your school being 'Tagore Public School'.



**Rabindranath Tagore**

A poet, writer, playwright, composer, philosopher, painter. He reshaped Bengali literature music as well as Indian art.