



DELHI WORLD PUBLIC SCHOOL
RAJKOT



Class - _____



“Summer holidays are a time for kids to explore the world, create memories, and fill their days with laughter and adventure. It's a break from routine, a chance to play freely, and an opportunity to let their imaginations run wild!”
Dear Parents, as the summer holidays approach, we want to ensure that the break is enjoyable, relaxing, and productive for your child. While it's important for children to rest and recharge, summer is also an excellent time to encourage learning in a fun and engaging way. To help your child stay on track and keep their skills sharp.





DELHI WORLD PUBLIC SCHOOL RAJKOT

Holiday Home Work



Session 2025-26

Hey Kids !

Summer Vacation is a welcome break..... Break from fixed schedule, rules & regulations of school, freedom from Teachers and time table. Freedom brings more responsibility, Keeping this in mind, we have planned most of the activities for you to keep you engaged positively and your energies well directed. Though teachers will not be physically present to keep a supervisory eye on you and your work. Guardian Angels at home i.e. your dear mama and papa are there to take care of your emotional, social, physical & academic needs.

We hope your home work and activities will be well managed and presented so that all of you earn a golden star★ as a grade.

We wish you a wonderful time ahead!

Good Habits and Good Manners are life long assets and manners must be practiced until they become a habit.

Four magic words that are basics of good manners are - **Please, Thank you, Excuse me and Sorry.** Make these four words a habit and see the difference.

MANNERS:

At home:

- ⊕ Help to keep the house clean especially the areas you use. Clear the toys, books or crafts that remain after you have finished.
- ⊕ Honesty is the best policy. Tell the truth at all times.
- ⊕ Be polite.
- ⊕ Share the T.V time. Do not sit too close while watching T.V.
- ⊕ Be fair with your friends, brothers and sisters.
- ⊕ Be responsible.



At the dining table:

- ⊕ Take small helpings and refill, clean your plate up.
- ⊕ Take small bites, eat neatly, slowly with your mouth closed.
- ⊕ Help to clear the table and clean up.

In the Park:

- ⊕ Littering makes the park untidy.
- ⊕ Destroying the plants or plucking the flowers will spoil the beauty.
- ⊕ Wait for your turn on swing and slides.



At a party:

- ⊕ Wish the host.
- ⊕ Don't mess up somebody's house.

While shopping:

- ⊕ Softly ask your parent for what you want. If refused, don't throw a tantrum.
- ⊕ Be careful, don't touch any breakable item.



On the telephone:



- ⊕ If there are no elders around, don't let the phone ring long, answer it.
- ⊕ Talk softly when someone is speaking on the phone and don't interrupt.

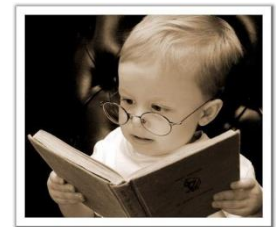
Hygiene:

- ⊕ Brush your teeth twice a day.
- ⊕ Do trim your nails often.
- ⊕ Do not waste water and electricity.
- ⊕ Keep your surroundings and environment clean. It is bad habit to throw things out of the window, car or a balcony.
- ⊕ Make friends having good habits who respect their elders and use good language.



Dear Parents Please ensure the child:

- ⊕ Speaks in **English** as far as possible.
- ⊕ **Read** picture books or story books.
 - Suggestive Series : Noddy, Bubbles , Lady Bird.
- ⊕ Listens to stories told by family members and tries to narrate stories.
- ⊕ Draws and colours pictures often.
- ⊕ Helps in small household jobs like watering plants, laying the dining table, making the bed, arranging books etc.
- ⊕ Is allowed to socialize with family, friends and relatives.
- ⊕ Watch TV only for limited hours and limited channels.
- ⊕ Learns to be self - sufficient by learning to cover books, tie shoe laces, comb hair etc.
- ⊕ Plays some outdoor games, goes for morning and evening walk and exercises regularly.
- ⊕ Sits for his/her studies regularly and completes the holiday Home Work and prepares for the forthcoming Cycle Tests.



We share this world with everybody who lives on this planet. Every small act of ours has an effect on this world. We must learn to take care of our world and make it a better place.

Working together,

Principal



Having spent some time in your new class, you have somewhat got used to the pattern of work in class . You have new challenges to meet and targets to achieve! Hope you have a great time with your family and friends during these holidays. Try everything that helps you enjoy this summer and keeps you in good health as well. Here are some activities designed for you to keep you at your creative best while you stay in your homes, beating the summer heat. These are simple activities that you would love to do on your own. Of course, you could ask your parents for some help.



Class:12 Sci. - English

Prepare notice on the topics discussed in the class.

Write letters in formal format as discussed in the class

Write summary of "The last lesson".

Class:12 – HINDI

1. हरिवंश राय 'बच्चन' की कविता 'आत्मपरिचय, एक गीत' का सारंश एवं काव्य सौंदर्य अपने शब्दों में लिखिए।

2. शीतल वाणी में आग के होने का क्या अभिप्राय है। 'आत्मपरिचय, एक गीत' के आधार पर लिखिए।

2. रचनात्मक लेखन :

निम्न विषयों पर 200 से 250 शब्दों में निबंध लिखिए।

- I. मोबाइल फ़ोन : वरदान या अभिशाप
- II. किसी मेले का आँखों देखा हाल

CLASS:12 - BIOLOGY

1. Make a project of any one topic of the following.

a I.V.F (test tube baby)

b. Aids

c. Cancer

2. Write notes on the following-

a. Uses of biotechnology products

b. Different types of antibodies and its function

c. Human genome projects

d. DNA finger printings and its uses.

e. Uses of microbes in human society

3. Draw all the diagram of chapter 2 and chapter 3 two times in vacation homework copy.

4. Learn and solve the last 5 years board questions of chapter 1 and 2.

Class:12 - Chemistry

1. Which metal is used in a hydrogen electrode? What is the purpose of using it?
2. Corrosion of motor cars is a common problem in winter when salt is spread on roads to melt the snow. Give a reason.
3. What is the reason that in concentrated solutions, strong electrolytes deviate from the Debye-Huckel-Onsager equation?
4. Electrolysis of KBr solution gives Br₂ ions at the anode, but the solution of KF does not produce any F₂ ions. Give a reason.
5. . What is corrosion?
6. What do you understand about normal hydrogen electrodes? Why is it important?
7. What is the significance of the Nernst equation in the calculation of the equilibrium constant of any cell reaction?
8. What do you mean by Kohlrausch's law: from the following molar conductivities at infinite dilution
9. Iron does not rust even if a zinc coating is broken in a galvanised iron pipe, but rusting occurs much faster if the tin coating over iron is broken. Why?
10. Write three differences between potential difference and emf.

CLASS:12 SCI&COMM. – PHY.EDU

Complete Assignment book (Unit-1)

Complete Class work book (Unit-1)

- **Record File (Game Book)**

Choice from the given list any one game

Basketball, Football, Kabaddi , Kho-Kho, Volleyball, Handball, Hockey, Cricket.

Record file shall include:-

Practical-1: Fitness tests administration.

Practical-2: Procedure for Asana, Benefits & Contraindication for any two Asana for each lifestyle disease.

Practical-3: Anyone one IOA recognized Sport/Game of choice. Labeled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.

Class:12 – Physics

1. Write the properties of electric field lines.
2. Solve exercise questions 2,4,6,8 ch 01.
3. What is the meaning of electric potential?
4. Write the definition of electric dipole.
5. Solve exercise questions 1,3,5 ch 02.

Class:12 Sci. - Maths

Multiple choice Questions :

1. Which of the given values of x and y make the following pair of matrices equal

$$\begin{bmatrix} 3x+7 & 5 \\ y+1 & 2-3x \end{bmatrix}, \begin{bmatrix} 0 & y-2 \\ 8 & 4 \end{bmatrix}$$

(a) $x = \frac{-1}{3}, y = 7$

(b) Not possible to find

(c) $y = 7, x = \frac{-2}{3}$

(d) $x = \frac{-1}{3}, y = \frac{-2}{3}$

2. If $A = \begin{bmatrix} 2 & -1 & 3 \\ -4 & 5 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 3 \\ 4 & -2 \\ 1 & 5 \end{bmatrix}$ then

(a) only BA is defined

(b) only AB is defined

(c) AB and BA both are not defined

(d) AB and BA both are defined

3. If $A = \begin{bmatrix} 5 & x \\ y & 0 \end{bmatrix}$ and $A = A^T$, then x is

(a) $x = 0, y = 5$

(b) none of these

(c) $x = y$

(d) $x + y = 5$

4. Out of the following matrices, choose that matrix which is a scalar matrix

(a) $\begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$

(b) $\begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$

(c) $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$

(d) $\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$

5. If $A = \begin{bmatrix} \cos a & \sin a \\ -\sin a & \cos a \end{bmatrix}$ be such that $A + A^T = I$, then a =

(a) $-\pi$

(b) π

(c) $\frac{\pi}{3}$

(d) $\frac{2\pi}{3}$

6. $A = [a_{ij}]_{m \times n}$ is a square matrix if

- (a) $m < n$ (b) $m > n$ (c) $m = n$ (d) None of these

7. Total number of possible matrices of order 3×3 with each entry 2 or 0 is

- (a) 9 (b) 27 (c) 81 (d) 512

8. If A, B are symmetric matrices of same order, then $AB - BA$ is a

- (a) Skew symmetric matrix (b) Symmetric matrix
(c) Zero matrix (d) Identity matrix

9. If the matrix AB is zero then,

- (a) It is not necessary that either $A = 0$ or $B = 0$ (b) $A = 0$ or $B = 0$
(c) $A = 0$ and $B = 0$ (d) All the statements are wrong

10. Matrices A and B will be inverse of each other only if

- (a) $AB = BA$ (b) $AB = BA = 0$ (c) $AB = 0, BA = I$ (d) $AB = BA = I$

Very short answer Questions

1. If $A = \begin{bmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{bmatrix}$, find AA^T

2. If $A = \begin{bmatrix} -3 & 2 \\ 1 & -1 \end{bmatrix}$ and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, find scalar k so that $A^2 + I = kA$.

3. If A and B are invertible matrices of the same order, then prove that $(AB)^{-1} = B^{-1}A^{-1}$

Case Based Question

1. A manufacturer produces three types of bolts, x, y and z which he sells in two markets. Annual sales (in Rs) are indicated below:

Markets	Products		
	X	Y	Z
I	10,000	2000	18,000
II	6000	20,000	8000

If unit sales prices of x, y and z are Rs.2.50, Rs.1.50 and Rs.1.00 respectively, then answer the following questions using the concept of matrices.

(i) Find the total revenue collected from the Market-I.

- (a) Rs. 64,000 (b) Rs. 60,400 (c) Rs.46,000 (d) Rs.40,300

(ii) Find the total revenue collected from the Market-II.

- (a) Rs. 35,000 (b) Rs. 53,000 (c) Rs.50,300 (d) 30,500

(iii) If the unit costs of the above three commodities are Rs.2.00, Rs.1.00 and Rs.0.50 respectively, find the cost incurred in Market-I

- (a) Rs. 13,000 (b) Rs. 30,100 (c) Rs. 10,300 (d) 31,000

Long Answer type Question

1. Express matrix $\begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$ as the sum of symmetric and skew symmetric matrix.