



**DAV MUKHYAMANTRI PUBLIC SCHOOL
PATRATU, RAJPUR (C.G.)
Summer Holiday Homework**

Std. IX (2022–23)

Dt: 23.04.2022

Dear Parents,

Greetings of the Day!

It will be not wrong, if we say, Children have again proved themselves to be the winners as even during this unprecedented time of COVID-19 their learning has not stopped. The spread of this virus has given a new dimension to the Teacher, Student and Parent partnership with the Online Teaching. Thank you very much for your cooperation.

Summer Vacation: There will be no Online Classes for Students w.e.f. 25th April 2022 (Monday).
Date of recommencement of Classes after Summer Vacation is **16th June 2022.**

As now we are heading towards Summer Vacation of the students, their Teachers have planned for some Activities / Homework for the students. We know that, every child is born with some inherent qualities which we as Teachers / Parents are responsible to develop through varied activities.

Summer Holidays are the time for Parents to become Teachers and Friends. It provides you with an opportunity to spend your precious time with your ward and develop an everlasting bond.

INFORMATION FOR STUDENTS:

1. Students need to become productive and constructive instead of relaxing. Utilise your vacation in a positive way”.
2. Stay home, eat healthy homemade foods, abide by the W.H.O. Norms - maintain social distancing, regular hand wash and use mask.
3. Try to help your parents and learn their way of interacting with elders.
4. Use this vacation as power charger, so as to be a healthier, happier & more relaxed person.
5. Read newspaper everyday and get updated. Don't stick to the Mobile Phones. Use mobiles only for the purpose of studies and something beneficial.
6. Remember to complete the Holiday Homework given below along with Project.

GENERAL INSTRUCTIONS:

1. **Complete the Note Books, Question & Answers, Work Sheets, Activities and Revise the Chapters of all Subjects taught to you before the Vacation.**
 - **Maths:** Only practice can make you perfect in Maths so, daily do Maths sums connected to the chapters completed.
 - **S.St :-** Practice Map, identify States and Countries and learn new terms .
 - **Languages:** - Practice writing skills and grammar, master spellings and meanings.
2. **Keep all the activities ready in Portfolio Files (1 subject 1 file) safely and submit when the school asks.**

Please note the information related to the Holiday Homework:

1. Each child has to prepare the Holiday Homework as per the instruction and submit it in School. The date for submission will be informed in the class.
2. All Holiday Homework to be done on A4 Size Paper as per the instruction given by Teachers and requirement of the Subject.
3. Draw (In Black Ink) a margin leaving a space of one inch from all sides of the A4 Paper before starting the Activity / Homework.
4. After completion of the Holiday Homework of all subjects, arrange all A4 size Papers properly.
5. Aesthetically design a Cover Page and place on the top of all Papers and staple all Papers properly. You can fix / paste a coloured adhesive tape on the left hand side of the papers to give it a look of a Book.
6. On the Cover Page, don't forget to write the Title as “Summer Holiday Homework” also mention Name of the School, Student's Name, Class / Section and Session 2022-23 clearly on the Cover Page.

7. Holiday Homework will be judged on the basis of neatness, creativity and originality of ideas.
8. **It will be assessed for the computation of academic results of the students.**
9. Encourage your ward to do their work independently using their mind, imagination and knowledge.
10. Parents are requested to act as a mentor and guide their child.

SUMMER HOLIDAY HOMEWORK:

Read each and every chapter of all subjects completed till 23rd April 2022 and complete the following work.

Subject	Activity / Homework
Maths	<ol style="list-style-type: none"> 1. Activity: Make a Spiral Form of Real Number or Number Line on an A4 Size Paper & colour it aesthetically. (Pythagorean Spiral) 2. Prepare a Mind Map of Chapter -1 in A4 size paper. 3. Complete the Exercise 1.1, 1.2, 1.3 and 1.4 of Chapter-1 of NCERT Maths Exemplar Book in Maths Copy. 4. Revise Chapter-1 of NCERT Textbook in Rough Copy.
Science	<p><u>Physics</u></p> <ol style="list-style-type: none"> 1. List the differences between Distance & Displacement and Speed & Velocity. 2. Draw the graphical representation of all types of Speed Time Graph and mention the nature of the graph. 3. Complete the exercise questions of NCERT Book in note copy. Also the additional question given at the end. <p><u>Biology</u></p> <ol style="list-style-type: none"> 1. Construct any one 3D Model of Plant Cell or an Animal Cell using household items and recyclable materials. <p><u>Chemistry</u></p> <ol style="list-style-type: none"> 1. Complete the exercise questions. (In Notebook) 2. Prepare a model to demonstrate movement of particles in solids, liquids and gases. (Refer Page No.-13 of the Text Book)

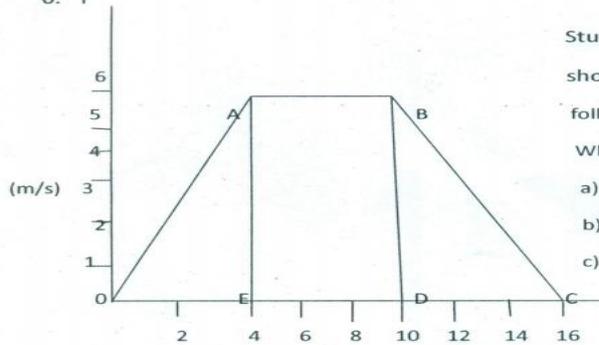
Stay Home, Stay Safe.

Thank you

SOLVE THE FOLLOWING PROBLEMS:

1. Suppose you walk across a room of length with a velocity of one and a half kilometer per hour. Express this velocity in m/s and find the time you will take to move across the room.
2. A car travels 30km at a uniform speed of 40km/h and the next 30km at a uniform speed of 20km/h. Find its average speed.
3. A train travels at 60km/h for 0.52h; at 30km/h for the next 0.24 h and at 70km/h for the next 0.71h. What is the average speed of the train?
4. A scooter acquires a velocity of 36km/h in 10 seconds just after the start. It takes 20 seconds to stop. Calculate the acceleration in two cases?
5. A train 100m long moving on a straight level track passes a pole in 5s. Find a) the speed of the train b) the time it will take to cross a bridge 500m. long.

6. i



Study the speed time graph of a body shown in the figure and answer the following questions:

What type of motion is represented by

- a) OA
- b) AB
- c) BC

d) Find out acceleration body.

e) Find out retardation of the body.

f) Find out the distance travelled by the body from A to B

7. In the above question, calculate a) distance travelled from O to A b) distance travelled from B to C c) Total distance travelled by the body in 16 sec.

8 A car is moving on a straight road with uniform acceleration. The following table gives the speed of the car at various instants of time:

TIME(s)	0	10	20	30	40	50
Speed(m/s)	5	10	15	20	25	30

Draw the speed time graph choosing a convenient scale. Determine from it i) the acceleration of the car ii) the distance travelled by the car in 50 sec.

9. A moving train is brought to rest within 20seconds by applying brakes. Find the initial velocity, if the Retardation due to brakes 2 m/s.
10. An object undergoes an acceleration of 8m/s^2 starting from rest. Find the distance travelled in 1 second. (4m)
11. A body is accelerating at a constant rate of 10m/s^2 . If the body starts from rest, how much distance will it cover in 2 seconds? (20m)
12. A car accelerates uniformly from 18km/h to 36km/h in 5 second. Calculate i) the acceleration and ii) the distance covered by the car in that time. (1m/s^2 , 37.5m)
13. A motor cycle moving with a speed of 5m/s is subjected to an acceleration of 0.2m/s^2 . Calculate the speed of the motor cycle after 10 seconds, and the distance it travels in this time. (97m/s; 60m)