



SUMMER VACATION HOLIDAY HOMEWORK SESSION 2022-23

Objective of summer holiday home work is to keep you in touch with pedagogy and constructive use of time, it will help you to learn as per your pace by giving you ample opportunities to use your creativity. It is expected, you will complete it by yourself and use only domestic material to design your project.

INSTRUCTIONS TO BE FOLLOWED FOR COMPLETING HOLIDAY HOMEWORK

1. Holiday homework must be completed on A-4 Coloured Sheets/ A-4 white sheet or as directed by concerned subject teachers.
2. Project work must be completed in time on a separate sheets and finally to be compiled subject wise.
3. Use domestic material to design your project work,
4. Originality and usability will be appreciated.
5. Formulate a time table during Summer Vacation, it will help you to learn as well as give you quality time with family to enjoy.
6. Writing will play a vital role while completing your assignments, so take your time and write beautifully.
7. Holiday home work is an individual assignment, don't take help of friends and do it by yourself, it will help you to meet with self and create a sense of self-appraisal.
8. Submit your homework on 1st July to the concerned teachers in a paper bag.
9. The summer holiday assignment will be considered to provide internal marks and grades.
10. Maintain a diary for daily entry, will certainly help you to introspect and self-analysis.
11. Reading daily Newspaper (English), some story books, autobiography, fictions, travelogues or classical will certainly help you to generate ideas and a lifelong wisdom.
12. Morning and evening games, yoga and meditation will boost up your happiness by keeping you agile and active.
13. Take care of self and help your members of family to discharge their responsibilities.
14. Keep the homework in a proper carry bag made of newspaper.
15. Try to avoid spending time on mobile and internet, it will certainly solidify your will power and give you ample confidence and strength.
16. Time has its own pace, so design and classify your routine to take the best out of summer vacation otherwise it will simply slip from your hands. We wish you will have a constructive, entertaining and gala summer time and wishing to meet after summer by rejuvenating our energies.



DELHI PUBLIC SCHOOL FIROZABAD

(UNDER THE AEGIS OF DELHI PUBLIC SCHOOL SOCIETY EAST OF KAILASH NEW DELHI)

(A SENIOR SECONDARY SCHOOL)

AFFILIATED TO CBSE, AFFILIATION NO. 2133064 SCHOOL NO: 61225

HOLIDAY HOMEWORK - (2022- 23)



Class- 9

English

1. Practise reported speech(with the help of any grammar book you have in your collection or any grammar book you can get from library)
Write 5 examples for each rule of reported speech
2. Write summary of chapter the sound of music
3. Give example of two personalities (with their introduction) who have touched sky in their field even after a lot of struggle on the basis of your reading chapter 'The Sound of Music'
4. Complete a story on the basis offline...(attempt any two)
 - A. Suddenly she turned back and screamed.....
 - B. Yesterday I was in seventh heaven when I.. ..
 - C. My dream is not far from me when I realised that.....

Hindi

1. पाठ "कबीर की साखियाँ" से प्रत्येक साखी से प्राप्त मूल्यों को लिखिए।
2. पाठ "दो बैलों की कथा" के आधार पर हीरा और मोती के बीच हुए वार्तालाप को संवाद शैली में लिखिए।
3. समाचार पत्र की सहायता से नीचे दी गई वस्तुओं के विज्ञापन एकत्रित कीजिए।
टी वी, फ्रिज, पेन, पंखा, लैपटॉप
4. उपसर्ग एवं प्रत्यय दोनों से किन्ही 10 उपसर्ग एवं प्रत्यय का प्रयोग कर नए 10-10 शब्दों का निर्माण करें।
5. गर्मियों की छुट्टी में अपने मित्र को आमंत्रित करने के लिए एक पत्र लिखिए।

Political science and Geography

Every student has to compulsorily undertake one project on Disaster Management Objectives: The main objectives of giving project work on Disaster Management to the students are to:

- a. create awareness in them about different disasters, their consequences and management
- b. prepare them in advance to face such situations
- c. ensure their participation in disaster mitigation plans
- d. enable them to create awareness and preparedness among the community.

Map work -

Geography map work (chapter 1 and 2)

Chapter -1: India-Size and Location

India-States with Capitals, Tropic of Cancer, Standard Meridian (Location and Labelling)

Chapter -2: Physical Features of India

Mountain Ranges: The Karakoram, The Zaskar, The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats

Mountain Peaks – K2, Kanchan Junga, Anai Mudi

Plateau - Deccan Plateau, Chotta Nagpur Plateau, Malwa Plateau

Coastal Plains - Konkan, Malabar, Coromandal & Northern Circar (Location and labelling)



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Physics

1. The displacement of a moving object in a given interval of time is zero. Would the distance travelled by the object also be zero? Justify your answer.
2. How will the equations of motion for an object moving with uniform velocity change?
3. A car starts from rest and moves along the X axis with constant acceleration 5 ms^{-2} for 8 seconds. If it then continues with constant velocity, what distance will the car cover in 12 seconds since it started from the rest?
4. A motorcyclist drives from A to B with a uniform speed of 30 km/h and returns back with the speed of 20 km/h. Find its average speed.
5. Draw the velocity versus time graph for a stone thrown vertically upwards and then coming downwards after attaining the maximum height.
6. An object is dropped from rest at a height of 150 metre and simultaneously another object is dropped from a rest at height of 100 metre. What is the difference in their heights if 2 seconds if both the objects drop from the same acceleration, how does the difference in heights vary with time?
7. An object starting from rest travels 20 metre in first 2 seconds and 160 metre in next 4 seconds. What will be the velocity after 7 seconds from the start?
8. A particle is moving in a circle of diameter 5 m. Calculate the distance covered and the displacement when it completes 3 revolutions.
9. The length of minutes hand of a clock is 5 cm. Calculate its speed.
10. A train starting from rest attains a velocity of 72 km/h in 5 minutes. Assuming that the acceleration is uniform, find
 - a. the acceleration and
 - b. the distance travelled by the train for attaining this velocity
11. The brakes applied to a car produce an acceleration of 6 m/s^2 in the opposite direction to the motion. If the car takes 2 seconds to stop after the application of brakes, calculate the distance it travels during this time.
12. A body starts to slide over a horizontal surface with an initial velocity of 0.5 m/s. Due to friction, its velocity decreases at the rate of 0.05 m/s^2 . How much time will it take for the body to stop?
13. On a 120 km track, a train travels the first 30 km at a uniform speed of 30 km/hr. How fast must the train travel the next 90 km so as to average 60 km/hr for the entire trip?
14. A scooter acquires a velocity of 36 km/hr in 10seconds just after the start. It takes 20 seconds to stop. Calculate the acceleration in the two cases.
15. A body is moving with a velocity of 15 m/s. If the motion is uniform, what will be the velocity after 10s?

Chemistry

- 1- Write a note on Plasma and Bose- Einstein condensate.
- 2- Write the applications of evaporation from daily life.
- 3- Draw a chart for interconversion of states of matter.

Biology

1. Make models of the following according to your roll no.-
 - a. Plant cell (Roll no. 1-8)
 - b. Animal cell (Roll no. 9-16)
 - c. Nucleus (Roll no. 17-24)
 - d. Mitochondria (Roll no. 25 – 32)
 - e. Plastids (Roll no. 33-40)
 - f. DNA (Deoxyribonucleic acid) (Roll no. 41 -48)



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Maths

1. If $2\sqrt{x} + \sqrt{5x - 4\sqrt{x}} = 1$, then show that $x - 1 = 0$.
2. Rationalise the denominator of the following:
$$\frac{30}{5\sqrt{3} - 3\sqrt{5}}$$
3. Find the value of a and b, if $\frac{7+3\sqrt{5}}{3+\sqrt{5}} + \frac{7-3\sqrt{5}}{3-\sqrt{5}} = a + \sqrt{5}b$.
4. If $a = 8 + 3\sqrt{7}$ and $b = 1/a$, what will be the value of $a^2 + b^2$?
5. Give an example of two irrational numbers whose:
(a) Difference is an irrational number
(b) Sum of an irrational number
(c) Product is an irrational number
(d) Division is an irrational number.
Justify also.

6. Simplify:

$$[(625)^{\frac{-1}{2}}]^{\frac{-1}{4}}$$

7. Find the values of a and b so that the polynomial $x^3 - ax^2 - 13x + b$ has $x - 1$ and $x + 3$ as factors.
8. Factorise the following:
(a) $ax - by + bx - ay$
(b) $6pm + 9mq + 8pn + 12qn$
9. Resolve the factors:
(a) $1 + a + b + c + ab + bc + ca + abc$
(b) $x^2 + (a + b + c)x + ab + bc$

Artificial Intelligence

* Create a file of 15 program's on python