

**Neo Convent. Sr.Sec. School, PaschimVihar, New Delhi-63**

**Summer Vacation Holiday Home Work(2018-19)**

**SUMMER VACATIONS CLASS - IX**

After the long and never-ending examination,  
What every child wishes is nothing more but summer vacation,  
When everyone enjoys,  
With their friends and toys,  
It's a time when none shouts on them,  
Or asks them to concentrate on their aim.  
Summer as we know is such a season,  
Which is very hot, we tell with a reason.  
But there is nothing that spoils anyone's fun,  
Everyone tries to jump, skip and run.  
And how can we forget,  
The ice-creams, golas and juices for which everyone awaits.  
And are busy in their plays.  
But friends don't try to spoil your vacations,  
Instead do some new things using your creation,  
And have a very enjoyable summer vacation.

**ENGLISH HOLIDAYS HOMEWORK**

**DOWNLOAD THE ASSIGNMENT FROM THE SCHOOL WEBSITE. THE ASSIGNMENT WILL BE UPLOADED BY 20-05-2018.**

**PREPARE FOR THE UNIT EXAMINATION-1.**

**हिन्दी**

1. इकाई परीक्षा से संबंधित पाठों का सार एवं कविताओं का प्रतिपाद्य अपने शब्दों में लिखें।
2. व्याकरण संबंधी विषयों का अभ्यास करते हुए 10-10 उदाहरण दें।

3. निम्नलिखित विषयों पर लगभग 250 शब्दों का अनुच्छेद लिखें।

- ई रिक्षा- हमसफ़र या सिरदर्द
- राष्ट्र हित में सरकार का एक बड़ा कदम- जी•एस• टी•।
- विद्यार्थी जीवन के कर्तव्य।

4 अनौपचारिक पत्रों का प्रारूप समझते हुए दो पत्र लिखें।

5 स्पैक्ट्रम के लिए कविता या लेख अपने शब्दों में लिखें।

## Mathematics

Name \_\_\_\_\_ Roll no \_\_\_\_\_ Parent's Sign \_\_\_\_\_ Teacher sign \_\_\_\_\_

Q1. Make a project file on the topic given to you in class.

Q2. Find the value of 'a' for which (x-1) is a factor of the polynomial  $a^2x^3-4ax+4a-1$ .

Q3. Factorise the following

- a)  $12(x^2+7x)^2-8(x^2+7x)(2x-1)-15(2x-1)^2$   
b)  $8x^3-(2x-y)^3$

Q4. Without finding the cubes, factorise and find the value of

$$\left(\frac{1}{4}\right)^3 + \left(\frac{1}{3}\right)^3 - \left(\frac{7}{12}\right)^3$$

Q5. Solve:  $\frac{7+3\sqrt{5}}{3+\sqrt{5}} - \frac{7-3\sqrt{5}}{3-\sqrt{5}}$

Q6. Simplify:

$$\left\{5\left(8^{\frac{1}{3}} + 27^{\frac{1}{3}}\right)^3\right\}^4$$

Q7. If x, y, z are positive real numbers show that:

$$\sqrt{x^{-1}y} \cdot \sqrt{y^{-1}z} \cdot \sqrt{z^{-1}x} = 1$$

Q8. If  $\frac{3+\sqrt{7}}{3-\sqrt{7}} = a+b\sqrt{7}$  find the value of a & b.

Q9. If  $x=2+\sqrt{3}$ , then find the value of  $x + \frac{1}{x}$ .

Q10. Represent  $\sqrt{10}$  on number line.

## SUBJECT-SOCIAL SCIENCE

Roll No.- \_\_\_\_\_ Sec- \_\_\_\_\_ Teacher's Sign- \_\_\_\_\_ Parent's Sign- \_\_\_\_\_

**1. Prepare a project file on Disaster Management.**

The content should include the following topics:

- a) Introduction to Disaster Management
- b) Natural Hazards: causes, distribution pattern, causes and mitigation measures for:
  - Earthquake
  - Tsunami
  - Cyclone
  - Flood
  - Draught
  - Landslide

**2. Do the assignment given below in your History register.**

### HISTORY ASSIGNMENT CH- FRENCH REVOLUTION

Q1. Explain how did the freedom of speech and expression under the revolutionary government in France promote the ideals of Liberty and Equality into everyday practice.

Q2. Why were the representatives of the Third Estate disappointed with the pattern of voting in the 'Estates General.'

Or

Discuss the events that precipitated the Tennis Court Oath?

Q3. What was the significance of 'The Tennis court Oath' in the French Revolution.

Q4. Who were the Jacobins?

Q5. What steps did the Revolutionary Government take to improve the condition of women?

Q6. How did the King and queen finally meet their end in France?

Q7. Explain triangular slave trade carried on during 18th and 19th century.

Or

How important was the slave trade to France?

Q8. "The French Revolution could not have led to the birth of republicanism had it not been for the many philosophers who created a climate for it." comment.

Q9. How was the Directory organized?

Q10. What were the reforms introduced by Napoleon Bonaparte in France?

Q11. "The inequality that existed in the French society in the Old Regime became the cause of French Revolution". Justify the statement by giving suitable examples.

## SCIENCE

BEFORE STARTING HOLIDAY HOME WORK, READ ALL INSTRUCTIONS CAREFULLY.

Instructions:

1. Holiday home work should be neat and clean.
2. Use separate register for assignment.( it should be of A4 size)
3. Do not forget to write units at proper places and in answer. You can hope to get full marks in numerical only if units are given both data and with answer.
4. Use pencil for figures and diagrams.
5. Check school web page regularly.

Q1. Do all activities of Ch-1, Ch- 5 ,Ch- 8, and Ch-15 in class work register.

Q2. Do practice of NCERT questions of ch-1, Ch-5, Ch- 8 and Ch-15 ( both solved and unsolved).

Q3. Do assignment based on chapters in notepad sheets.(given below).

Q4. Draw all diagrams of the chapters in Class register.

Q5. Do all the exemplar problems of the above chapters in notepad sheets.

Q6. Make a power point presentation and its content file on the topic discussed in the class.

q 7. Do the MCQ'S of all the experiments coming in SA-1 in your practical book as discussed in the class.

### ASSIGNMENT (CH-1)

1. Justify the following statement:-

- a) Butter is generally wrapped in wet cloth during summer if no refrigerator available.
- b) We sweat more on humid day.
- c) Clothes take much time to dry in rainy season.
- d) Water possesses a high boiling point.
- e) Liquids like ether and acetone are kept in cold places.
- f) We feel cool, when we return from swimming in summer

2. Is diffusion faster in summer or winter? Why?

3. Define latent heat of fusion and vaporization. State their S.I. units.

4. In severe cold weather, a family burnt wood in the room during the night by keeping the windows close. After sometime, they felt suffocated. They immediately opened the windows and got relief. What did actually happen?
5. With the help of an activity, show that diffusion in a liquid becomes faster as the temp. is increased.
6. Name the process which takes place when
  - a) a drop of blue ink is added to water.
  - b) ammonium chloride is heated slowly.

### ASSIGNMENT ( CH-8 MOTION)

1. If after 2 rounds trips of radius  $R$ , the body returns to its starting point. Calculate the distance covered and its displacement.
2. Ramesh travels 6m from A to B and then 8m at right angles to AB. What is the distance travelled by him and what is its displacement?
3. Akash travels from Amritsar to New Delhi in a car at a distance of 450km in 9h. Sanyam travels from Bangalore to New Delhi in a car at a distance of 2500km in 40h. Which car is having more speed and by how much factor?
4. A train travels 80Km in 2h. Find its average speed in Km per hour, m per min and meter per sec.
5. Derive all the three equations of motion for uniform acceleration by graphical method.
6. Draw the position – time graph and velocity – time graph for the following: (i) uniform motion and (ii) non uniform motion
7. What do you mean by zero, positive and negative acceleration.
8. Jyoti starts her scooty from rest and acquires a velocity of 36km/h in 10sec. Calculate the acceleration of the Jyoti's scooty.
9. Give any 5 importance of graph.
10. What is the acceleration of a kanika moving with uniform velocity? Why?
11. Differentiate between scalar and vector.
12. Differentiate between speed and velocity.
13. Differentiate between distance and displacement.
14. Differentiate between uniform and non uniform motion.
15. Explain rest and motion are relative to each other.
16. When a body is said to be in motion?
17. Simranjeet goes to market to buy mangoes and he travels first half of his journey with a velocity of 10m/s and next half with a velocity of 15m/s. But he finds market is closed due to
18. sealing drive of MCD and he returns back to his home with velocity of 20m/s. Calculate the average speed and average velocity for (i) home to market (ii) home to home in a round trip.
19. Manisha racing car has a uniform acceleration of  $4\text{m/s}^2$ . What distance will it cover in 10sec after the start from rest?
20. Aditya applied brakes on his car travelling at 72km/h. After passing over 200m, its velocity is reduced to 36km/h. Find the retardation in  $\text{m/s}^2$ .
21. What is the slope of position - time graph and velocity – time graph.

22. Fill in the blanks:

- i) Distance is a \_\_\_\_\_ quantity but displacement is \_\_\_\_\_ quantity.
- ii) Speed and \_\_\_\_\_ have same units of measurement.
- iii) A body is said to be retarded if its velocity is \_\_\_\_\_
- iv) Acceleration is the rate of change of \_\_\_\_\_
- v) If a body moves with constant velocity, its acceleration is \_\_\_\_\_
- vi)  $90 \text{ km/hr} = \text{_____ m/s}$ .

23. Short answer type questions:

- a. Define : - Deaccelaration, velocity, displacement.
- b. A body is moving with a velocity of  $10 \text{ m/s}$ . If the motion is uniform, what will be the velocity after 10 sec.
- c. How many degrees are there in one radian?

### **INFORMATION TECHNOLOGY**

1. Prepare the documentation for the project. Download the blueprint and make appropriate changes according to your project.
2. solve the given sample paper on a-4 sheets and place in a clear bag.

*Remember:*

Road has Speed Limit, Bank has Money Limit, Exam has Time Limit, Tower has Height Limit, But Thinking has No Limit...So Think Big and Achieve Big.

Wish You all Happy Holidays! God Bless all.

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