



**RG ACADEMY**

**MANAULI, NCR**

**SUMMER HOLIDAYS HOMEWORK**

**GRADE:IX (2024-25)**

**SECONDARY STAGE**



- It's summer time again. Time for strengthening family bond, tying threads of family tree, sharing joys and having a good time together.
- Look for interesting books and read as much as you can about the places and people.
- Take good care of your health and hygiene.
- Use holidays' homework as an opportunity to spend quality time with your family and friends.
- Follow the guidelines given by the teachers to complete specific activities.

**GENERAL INSTRUCTIONS FOR THE STUDENTS:**

- For each and every subject, learn PA-1 Syllabus.
- learn and write PA-2 Syllabus done till now in separate holidays homework notebook.
- Do book -exercise of PA-2 Syllabus for all subjects.
- Use separate notebook for holidays homework for all subjects. **(Only 1 notebook for all subjects) .**
- Highlight work of every subject by using bookmarks.
- Do your holidays' homework by yourself.
- Writing should be neat and clean.
- Mention date and day on every work.

- Do all work under the guidance of parents.
- Try to do your written work regularly to enhance your writing power.
- Pay special attention towards your health, drink lots of water and avoid eating fast food.
- Read the newspaper daily.



### Subject: English

- Learn and Write PA- 2 syllabus (in fair notebook only) (complete the Assignment Book with chapters done till now)
- Do page (18 to 32) in the Assignment book (Discursive passage)
- Do pages (165 to 168) in the Assignment book (Descriptive paragraph)
- Do pages (185 to 194) in the Assignment book (short stories)
- As you know that 5<sup>th</sup> June is celebrated as 'World Environment Day'. So, prepare a portfolio (Project Report) on the topic of 'Environment Day'. Your project must be with all the information and pictures. Your file must be decorated in nicely. **(Art integrated)**
- 21<sup>st</sup> June is observed as the 'International yoga Day' what is the importance of yoga in our life write a paragraph on it with giving the nice examples.
- What was your daily routine during vacations write on A4 size decorative sheet.

### Subject: Hindi.

- 1) 5-5 उपसर्ग – प्रत्यय, समास, अलंकार (अनुप्रास, यमक, उपमा, रूपक) के उदाहरण लिखिए।
- 2) महिला दिवस और ग्लोबल वार्मिंग विश्व की चिंता का विषय पर 50 शब्दों में अनुच्छेद लिखिए।
- 3) शीर्षक देते हुए लघु कथा लिखिए जिसमें निम्नलिखित शिक्षा मिलती हो समझदार को ही उपदेश देना चाहिए; मूर्ख को उपदेश देने से अपनी ही हानि हो सकती है।
- 4) ज्वर आने पर आप डॉक्टर के क्लीनिक में गए हैं। आपके तथा डॉक्टर के बीच हुई बातचीत को संवाद के रूप में लिखिए।
- 5) आपका स्कूल ग्रीष्म अवकाश में दिल्ली से गोवा की यात्रा का आयोजन कर रहा है। इस यात्रा से संबंधित सूचना- पत्र लिखिए।
- 6) निम्न विषयों पर पोर्टफोलियो बनाइए:

● समास

● कबीर की साखियां एवं सबद

सामान्य निर्देश :-

■ पोर्टफोलियो हस्तलिखित होना चाहिए।

■ पोर्टफोलियो आकर्षक और चित्रकारी सहित होना चाहिए।



■पोर्टफोलियो में प्रथम पृष्ठ, अनुक्रमणिका , शीर्षक और उप शीर्षक अवश्य होने चाहिए ।

■पोर्टफोलियो बनाने के लिए रंगीन पृष्ठ का प्रयोग करें।

नोट:- PA-2 का समस्त पाठ्यक्रम याद करें।

### Subject : Maths

1. Learn and Write tables 12-25(5 times).
2. Revise chapter -4(Linear Equations in Two Variables) and Chapter -10 (Heron's Formulas) in HHW N.B.
3. Write all the terms and formulas of Ch-4 and 10 on A4 size sheet and learn it.

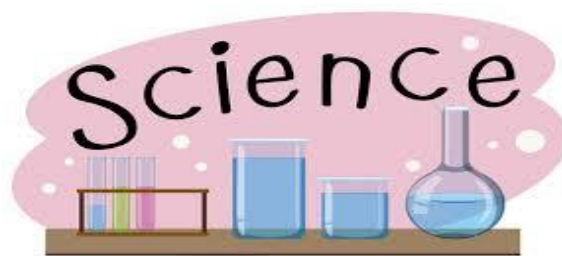


### Subject: Science



#### Integer/Numerical Value Type

1. The density of ice is maximum at a temperature
2. ( $^{\circ}\text{C}$ ) of
3. A pressure of 228 cm Hg is equivalent to x atmosphere. The value of x is
4. The temperature of a liquid before heating was recorded as  $25^{\circ}\text{C}$  and after heating was recorded as 300 K. The difference in temperature is
5. How many of the following substance(s) has/ have higher density than cotton?  
Air, exhaust from chimney, water, honey, chalk, iron
6. How many of the following substance(s) possess(es) lesser kinetic energy than water?  
Oxygen, hydrogen, brick, wooden block, iron, ammonia
7. In brief, state what happens when
  - (i) Dry apricots are left for sometime in pure water and later transferred to sugar solution?
  - (ii) A red blood cell is kept in concentrated saline solution?
  - (iii) The plasma membrane of a cell breaks down?
  - (iv) Rhoeo leaves are boiled in water first and then a drop of sugar syrup is put on it?
  - (v) Golgi apparatus is removed from the cell?
8. Justify each of the following statements.
  - (i) It is said that every multicellular organism has come from a single cell.
  - (ii) Cell membrane or plasma membrane is described as selectively permeable membrane.
  - (iii) Chloroplast is an organelle that has lead to photoautotrophic mode of nutrition among organism



#### Integer/Numerical Value Type

1. A stone falls freely from rest and the total distance covered by it in the last second of its motion equals the distance covered by it in the first three seconds of its motion. How many seconds the stone remains in the air.

1. From the top of a building 160 m high, a ball is dropped and at the same time a stone is projected vertically upward from the ground with a velocity of  $40 \text{ m s}^{-1}$ . Find the time when the ball and the stone will meet. Take  $g = 10 \text{ m s}^{-2}$ .
2. A parachutist jumps from an aeroplane moving with a velocity of  $u$ . Parachute opens and accelerates downwards with  $2 \text{ m/s}^2$ . He reaches the ground with velocity  $4 \text{ m/s}$ . How long is the parachutist remained in the air?
3. If a body loses half of its velocity on penetrating 3 cm in a wooden block, then how much will it penetrate more before coming to rest?
4. From an elevated point A, a stone is projected vertically upwards. When the stone reaches a distance  $h$  below A, its velocity is double of what it was at a height above A. The greatest height attained by the stone is  $3h$ . What is the value of  $n$ ?

### Subject: Social studies

As per CBSE guidelines, students of Class IX have to submit a handwritten project on any one of the related topics on Disaster Management.

#### GUIDELINES FOR SUBMITTING THE PROJECT

Highlight the following:

- Definition of 'Disaster'.
- What is a disaster management cycle?
- What are the types of Disasters?
- What is vulnerability and risk?
- What is a Hazard? How is It classified?
- Differentiate between hazard and disaster.



2 a. Prevention and Mitigation of Common Disasters in India. Select any two for your project.

- Earthquake
- Cyclones
- Flood
- Drought
- Landslides

2b. Based on your selection in Point 2a above, enumerate the following in your project.

- Causes
- Do's and don'ts
- Prevention and mitigation measures
- Your emergency Kit
- Latest means of forecasting Disasters
- Prepare a case study on any one of the Disasters that you have chosen to research.

### GENERAL INSTRUCTIONS

1. Cover page- Displaying the topic.

**2.Acknowledgement** – Thanking the people or institution that has helped you in Completion of your project.

**3.Certificate-** Mentioning your name and the name of teacher under whose supervision You have completed your work.

**4.Index-** Giving the list of contents with page numbers.

**5.Introduction-** Giving the purpose and importance of a study.

**6.Topics-** Give a title to each topics along with details, pictures and newspaper Cuttings.

**7.Conclusion-** What do you learn from your study?

**8.Bibliography-** Showing the sources from where you have gathered information.

9.Project to be done on A-4 size sheet .

10.Project Report should be hand written for 15 pages.

11.Eco-friendly materials can be used by the students.

12.The students can use primary as well as secondary sources for the research work.

13.Learn and revise P.A-2 chapters in fair notebook.(complete your work till now in fair notebook)

### **3.Map work:-**

Chapter 2 Physical Features of India Important Map Pointing. (Locate and Labelling on Practice map book of India)

1.Mark the Mountain and hill ranges – the Karakoram, the Zaskar, the Patkai Bum, the Jaintia, the Vindhya range, the Aravali, and the Cardamom hills.

2.Mark the following plateau Chotanagpur and Malwa.

3.Mark The following peaks – K2, Kanchenjunga, Nanga Parbat and the Anai Mudi.

### **Subject: I.T (Information Technology)**

1. Make a PowerPoint presentation (minimum 9) slides on the topic of uses of IT in different fields with proper text and graphics.

2. Prepare a portfolio file on Artificial intelligence must cover the following topics.

\*Introduction to Artificial intelligence

\*Types of Artificial Intelligence

\*Purpose of Artificial Intelligence.

\*The uses of Artificial Intelligence.

\*Advantages and Disadvantages of Artificial Intelligence.

\*Applications of Artificial Intelligence.

3. Learn chapter:1,2of both parts And B.



