

# SAINIK SCHOOL CHITTORGARH

## SUMMER VACATION HOLIDAY HOMEWORK

### CLASS IX

SUBJECT	SUBMITTED BY
MATHS	MR DK SHARMA
SCIENCE	MR TONY A. MR ONKAR SINGH MR BHUPENDRA BIHARI VYAS
HINDI	MR B K SINGH
SOCIAL SCIENCE	MR JAIPAL SINGH
ENGLISH	MRS JAYANTI
COUNSELING	MS PRIYANJALI
COMPUTER	MR. KULDEEP MALVIYA

## GENERAL INSTRUCTIONS

### INSTRUCTIONS:

1. The holiday homework will be considered as your project work.
2. The marks awarded for this will be counted towards Internal –assessment.
3. On page 1: write -Project Work, name, class, roll number, topic etc

### PROJECT WORK

NAME:

CLASS:

SCHOOL NUMBER:

HOUSE:

SECTION

4. Last page of the project will carry the following certificate

### CERTIFICATE

This is to certify that I \_\_\_\_\_ OF Class \_\_\_\_\_. Have done the project work on my own. It is my own original work as per the guidelines provided by \_\_\_\_\_ ( Name of the teacher).

Signature

Name:

# MATHS

## ASSIGNMENT CHAPTER.1 NUMBER SYSTEM

- Q.1 Locate  $\sqrt{3}$  on the number line.  
Q2. Find five rational numbers between  $3/5$  and  $4/5$ .  
Q3. Find the decimal expansions of  $10/3$ ,  $7/8$  and  $1/7$ .  
Q4 Add  $2\sqrt{2} + 5\sqrt{3}$  and  $\sqrt{2} - 3\sqrt{3}$ .

Q5. Simplify  $(27)^{\frac{1}{3}} \cdot (27)^{\frac{1}{3}} \left[ 27^{\frac{1}{3}} - 27^{\frac{2}{3}} \right]$ .

Q6 Simplify  $\frac{3\sqrt{2}}{\sqrt{6}-\sqrt{3}} - \frac{4\sqrt{3}}{\sqrt{6}-\sqrt{2}} + \frac{2\sqrt{3}}{\sqrt{6}+2}$ .

- Q7. Represent  $\sqrt{7.3}$  on the number line.  
Q8. What is the value of  $(256)0.16 \times (256)0.09$  ?  
Q9. Express  $1.8181\dots$  in the form  $p/q$  where  $p$  and  $q$  are integers and  $q \neq 0$ .  
Q10. Express  $1. + 0.$  as a fraction in the simplest form.  
Q11. Simplify and find the value of  
(a)  $(729)^{1/6}$   
(b)  $(64)^{2/3}$   
(c)  $(21)^{3/2}$   $(21)^{5/2}$

Q12. Rationalize the denominator:

## CHAPTER 2: POLYNOMIALS

Text Book Exercises

Exercise No. 2.1 ( All Questions)

Exercise No. 2.2 ( All Questions)

Exercise No. 2.3 ( Two parts of each question)

Exercise No. 2.4 ( Two parts of each Question)

# HINDI

क्षितिज भाग 1 एवं कृतिका भाग 1

- प्रश्न 1. राष्ट्रीय सुरक्षा के सन्दर्भ में सेना की भूमिका पर अपने विचारों को निबंध के रूप में व्यक्त कीजिए। (शब्द सीमा 300)  
प्रश्न 2. आपके पाठ्य पुस्तक में पाठ 'कबीर की साखियों' का हिंदी में संदर्भ सहित व्याख्या कीजिए।  
प्रश्न 3. "ल्हासा की ओर" पाठ का सारांश संक्षेप में लिखें।  
प्रश्न 4. पत्र लेखन के महत्त्व को बताते हुए औपचारिक पत्र और अनौपचारिक पत्रों के पाँच-पाँच नमूनों को लिखें।  
प्रश्न 5. कोई एक कविता (150 शब्द) अथवा कहानी (400 शब्द) अथवा निबंध (400 शब्द) लिखिए जिसमें आपके सपनों का वर्णन हो, जो आप अपने जीवन में करना चाहते हैं।

## PROJECT WORK:

- प्रश्न 1. मुंशी प्रेमचंद एवं कबीरदास का सचित्र जीवन परिचय एक चार्ट पेपर पर बनाएँ।

# COMPUTER SCIENCE

## CHAPTER 1: INTERNET & THINGS

1. Make a YouTube channel with your google account & post a video on It.

## CHAPTER 1: MS-OFFICE

Write all the MS -Excel formulas.

# SOCIAL SCIENCE

## ASSIGNMENT

### DISASTER MANAGEMENT – PROJECT WORK /HOLIDAY HW

Class-IX

As per CBSE guidelines, students of Class IX have to submit a hand written project on any one of the related topics on Disaster Management. Students are directed to complete the project and submit till 01 July 2024 positively.

TOPIC OF THE PROJECT – Israel– Hamas (Gaza) war

#### GUIDELINES FOR SUBMITTING THE PROJECT

1. Use A4 size sheets only.
2. It must be a hand written project (Use blue or black pen only)
3. You can use news paper clippings, maps, diagrams and material from the web.
4. Each illustration should be supported with a writeup/relevance to the topic
5. The cover page should be written in bold letters with the topic, name and school number Follow the sequence of pages as given below:
  - a. Acknowledgement
  - b. Index
  - c. Define disaster and its types (describe in 2 pages with illustrations)\*
  - d. Causes (illustrations)\*
  - e. Extent of damage to world Economy (illustrations)\*
  - f. Who is responsible (illustrations)\*
  - g. Steps taken by the Govt. to combat the situation (illustrations)\*
  - h. Organisations working to help the country (illustrations)\*
  - i. Lessons learnt (illustrations)\*
  - j. Dos and don'ts for next time to avoid such disasters
  - k. Bibliography\* Maps, pictures, graphs, etc.

Use hardbound cover pocket file or get your project spiral bound.

#### MAPWORK

Apart from above mentioned Project cadets also needs to submit the following MAPWORK till 01 July 2024 positively.

#### A. Subject-History

##### Map-1: The French Revolution

On an outline map of France mark the following. (Outline map Att.)

- Bordeaux
- Nantes
- Paris
- Marseilles

NOTE – 1. Cadets are directed to use the map given below only.

2. Project must be in cadet's handwriting only. Printed/typed project/map work will not be accepted.
3. The above mentioned project and map work must be submitted till 01 July 2024.



# ENGLISH

## Reading Activity

Q1. Read – a) The Hindu b) Watch the Wion News c) Read magazines like- Frontline  
Learn at least 10 words daily and use it in sentences of your own. Do come prepared with two hundred words and sentences written in a separate note-book of at least 100 pages.

## Creative -writing

Q2. PORTFOLIO: PREPARE A PORTFOLIO WITH THE FOLLOWING – ( Prepare a file with A4 size sheets)

Introduction	( 1 Page each)
My strengths	( 1 Page each)
I need to improve on...	( 1 Page each)
My achievements	( 1 Page each)
I have participated in...	( 1 Page each)
The books I have read	( 1 Page each)
The book I wish to read	( 1 Page each)

Q3. Write two book reviews of the books which you will read during summer vacation

Q4.. Write five descriptive paragraphs on famous personalities and monuments.

Q5. You have just read two of the poems (a) The Road not Taken (b) Wind

(a) Theme /Central Idea (b) Summary (c) Meanings of words

Q6.. Questionnaire Making :(i)Prepare 15 multiple choice questions from the story a) The Fun They Had  
(b)The Lost Child

. The deadline for submission of the above work is July 1, 2024, within the subject period.

# LIFE SKILLS & VALUE EDUCATION

01 Make a poster on theme: “Yoga for mental strength” using paints, sketches or colours. Poster can either be made on A3 or A4 size paper (preferably ivory sheet).

OR

02 Write an essay in 150-200 words on topic “Yoga for mental strength”.

# CHEMISTRY

ASSIGNMENT Chapter : 1 MATTER IN OUR SURROUNDINGS

Q1. A sample of water under study was found to boil at  $102^{\circ}\text{C}$  at normal temperature and pressure. Is the water pure? Will this water freeze at  $0^{\circ}\text{C}$ ? Comment.

Q2. Water as ice has a cooling effect, whereas water as steam may cause severe burns. Explain these observations.

Q3. You are provided with a mixture of naphthalene and ammonium chloride by your teacher. Suggest an activity to separate them with a well-labelled diagram.

Q4. It is a hot summer day, Priyanshi and Ali are wearing cotton and nylon clothes respectively. Who do you think would be more comfortable and why?

Q5. You want to wear your favourite shirt to a party, but the problem is that it is still wet after a wash. What steps would you take to dry it faster?

Q6. Comment on the following statements:

(a) Evaporation produces cooling. (b) The rate of evaporation of an aqueous solution decreases with an increase in humidity. (c) Sponge though compressible is solid.

Q7. Why does the temperature of a substance remain constant during its melting point or boiling point?

Q8 When 50 g of sugar is dissolved in 100 mL of water, there is no increase in volume. What characteristic of matter is illustrated by this observation?

Q9 Name the process which occurs when a drop of dettol is added to water.

- Q10. In which of the following, the particles have highest forces of attraction? Water, NaCl (solid), ice or, wax.
- Q11. Why do the gases exert more pressure on the walls of the container than the solids?
- Q12. Why do we see water droplets on the outer surface of a glass containing ice cold water?
- Q14. What happens when an inflated air balloon is pricked with a pin? Name the property of the gaseous state exhibited by this observation.
- Q15. What will happen when pressure is increased and temperature decreased on CO<sub>2</sub> gas?
- Q16. To which physical state of matter do the following statements apply?  
(i) Incompressible, no fixed shape      (ii) Compressible, no definite volume
- Q17. Name the state of matter in which: (i) Layers of particles can slip and slide over one another easily.  
(ii) Particles just move around randomly because of very weak force of attraction.
- Q18. Define density and give its SI unit.
- Q19. In which of the following, the particles have highest forces of attraction? Water, NaCl (solid), ice or, wax.
- Q20. Why do the doctors advise to put strips of wet cloth on the forehead of a person having high fever?
- Notebook Assignment:

## PHYSICS

### ASSIGNMENT CHAPTER 1: MOTION

Content 1. Complete exercise Q NO 1,2,4,6,7,9,10(NCERT SCIENCE BOOK)

Content 2. Prepare at least one model/project from the following: -

1. Understanding the concept of free fall. Observe the free fall of different object. Write your observations and conclusion from the experiment.
2. Prepare a model for the transformation of one form of energy into another form of energy.eg. steam from pressure cooker can be used to lighten the LED.
3. Make a car model using Newton's III law of motion.
4. Prepare a model taking a object of varying mass (plastic bottle with hole at the bottom) and show that time period of simple pendulum does not depend on mass of the object.
5. Using Pascals law prepare the model of folding bridge.

## BIOLOGY

### ASSIGNMENT CHAPTER: AIR, WATER, & LAND POLLUTION

Content 1. Introduction

Content 2. Sources of Pollution

Content 3. Causes

Content 4. Pollutants

Content 5. Harmful Effects

Content 6. Diseases Associated with the Pollution

Content 7. Remedial Measures

Content 8. Swachh Bharat Mission

Notebook Assignment: You are also directed to give a detail account of HOME ASSIGNMENT in a separate notebook