

# SAINIK SCHOOL CHITTORGARH

## AUTUMN VACATION HOLIDAY HOMEWORK

**SUBJECT NAME:** LIFE SKILLS & VALUE EDUCATION

**CLASS & SECTION:** VIII (All Sections)

**SUBJECT TEACHER NAME:** Pratibha Bishnoi

### **INSTRUCTIONS:**

**Submission Date:** All holiday homework must be neatly completed and submitted in the first week after the vacation.

**Presentation Matters:** Use neat handwriting/typing and organize your work clearly. Use a file/folder if required.

**Creativity Encouraged:** You are welcome to use diagrams, coloured pens, charts, or pictures to make your work more attractive and informative.

**Original Work:** Try to do the work independently. Avoid copying from the internet or friends.

**Daily Practice:** Do a little every day instead of rushing at the last moment.

### **ASSIGNMENT:**

#### **Content 1 – Poster Making**

Prepare a Poster on the theme "**Importance of Discipline**".

Use creative drawings, slogans, or quotes. Focus on showing how discipline helps in personal life, studies, and future success.

#### **Content 2 – Daily Diary**

Maintain a Daily Diary during the vacation. Write at least 10 entries (one for each day of the holidays). Each entry should include:

- (a) Date
- (b) What I did today
- (c) What I learned today
- (d) How I felt today

Be creative and honest in your work. You may also decorate your diary with drawings, stickers, or colourful borders.

# SAINIK SCHOOL CHITTORGARH

## AUTUMN VACATION HOLIDAY HOMEWORK

### SCIENCE

CLASS & SECTION: VIII A, B,C

SUBJECT TEACHER NAME: ANURAG SHARMA

#### INSTRUCTIONS:

1. **Conceptual Questions** must be answered in a **separate Science notebook or copy**.
2. Write answers in **neat and legible handwriting**.
3. **Project Work** (Model or File) should be completed in a **separate project file**.
4. **Submission Date:** The **first day after the autumn vacation**. No late submissions will be accepted.
5. Be sincere and creative with your work — it will be evaluated.

### ASSIGNMENT

#### CHAPTER : SOUND – Conceptual Questions

1. Define the following terms with examples: Amplitude, Frequency, Wavelength, Pitch.
2. Explain with a labeled diagram how sound is produced and propagates in a medium.
3. A bat emits an ultrasound of frequency 40,000 Hz, which returns as echo in 0.02 s. Find the distance of the reflecting surface (speed of sound = 340 m/s).

#### CHAPTER: Chemical Effects of Electric Current – Conceptual Questions

1. Explain why a bulb glows when you dip the ends of a tester in salt solution.
2. Draw a circuit diagram to show electroplating of copper using copper sulphate solution. Label the electrodes, anode, cathode, battery etc.

#### CHAPTER : Some natural phenomena– Conceptual Questions

1. Define charging by rubbing. Give two examples.
2. What is lightning? Explain how charges are separated in a cloud.
3. Explain at least four safety measures to protect from lightning.

## PROJECT WORK:

- ❖ “Make a colourful and informative chart on the topic: ‘Reflection of Light and Types of Reflection.’
  - Your chart should include the laws of reflection, diagrams showing incident ray, reflected ray, and normal, and explain the difference between regular (specular) and irregular (diffused) reflection with real-life examples.”

*Note\**: Be honest with your work.

- Handwriting, presentation, and effort will be taken into account while evaluating.
- Enjoy your holidays, stay safe, and keep learning!

**Happy holidays!**

**SAINIK SCHOOL CHITTORGARH**  
**SUMMER VACATION HOLIDAY HOMEWORK**

**INFORMATION**

**SUBJECT NAME: English**

**CLASS & SECTION: VIII A.B and C**

**SUBJECT TEACHER NAME: J Saxena and Rawal Rathore**

**INSTRUCTIONS:**

1. The holiday homework will be considered as your English project work.
2. The marks awarded for this will be counted towards Internal –assessment.
3. On page 1: Write -English Project Work, Name, Class and Roll number.

**ENGLISH PROJECT WORK**

NAME:

CLASS:

SECTION

SCHOOL NUMBER:

HOUSE:

5. Last page of the Assignment will carry the following certificate

**CERTIFICATE**

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

Signature

Name:

**Part A: Creative Writing and Grammar**

1. **Leave Letter (Formal)** Write a formal letter to your class teacher asking for three days' leave as you are going on a trip to Mysore.
2. **Informal Letter** Imagine you are living at **12, Green Park Colony, Bangalore – 560032**. You recently attended a summer camp. Write an informal letter to your friend telling him/her about your experience at the camp (around 150 words).
3. **Notice Writing** You are **Mohan/Radha**, the head boy/girl of GVM School, Pune. Your school is organising a tour to Goa. Write a **Notice** inviting students who want to join the tour. Put the notice in a box.
4. **Homonyms** What is a **Homonym**? Give **two examples** and frame your **own sentences** for each of the different meanings.

**5. Question Tags**

Fill in the blanks with the correct **Question Tags**:

1. Jake is from Canada, \_\_\_\_\_?
2. We missed the train, \_\_\_\_\_?
3. Peter isn't very friendly, \_\_\_\_\_?
4. I am right about this, \_\_\_\_\_?
5. You have submitted your project, \_\_\_\_\_?
6. I am concerned that Lily is unwell, \_\_\_\_\_?
7. The boy is singing, \_\_\_\_\_?
8. John isn't a teacher, \_\_\_\_\_?
9. It is quite cold today, \_\_\_\_\_?
10. Olivia is intelligent, \_\_\_\_\_?

6. **Paragraph Writing** Write a paragraph (about 100 words) on the **Rainy Season**.

7. **Palindrome Words** Write any **five** palindrome words (words that read the same forwards and backwards).

**Part B: Reading, Research, and Project Work**

**8. Reading Comprehension Creation**

Write a short, engaging paragraph (about 100 words) on the topic '**The Importance of Reading Books**'. Based on this paragraph, prepare **five** comprehension questions and their answers.

9. **Interview Script** Imagine that you are going to interview a notable personality. Choose either a **famous sportsperson** or an **environmental activist**. Note down the possible conversation between 'you' and the person (at least 6 turns for each person).

10. **Digital Presentation (PPT)** Make a short presentation (5-7 slides) about **three world-famous disabled people** and their contributions. Include a special reference slide for **Stephen Hawking**. Use clear pictures and brief bullet points.

Q11. Complete the assignment assigned on English Language Lab on the system itself.

**Note:**

- Complete all work in a separate, neat notebook or file.
- Ensure all answers are well-presented and grammatically correct.
- Use your own creative thoughts for the writing tasks.



# SAINIK SCHOOL CHITTORGARH

## AUTUMN VACATION HOLIDAY HOMEWORK

### SUBJECT NAME - MATHEMATICS

CLASS & SECTION: VIII  
A,B,C

SUBJECT TEACHER NAME: AMIT KUMAR JHA

#### INSTRUCTIONS:

1. Make a separate notebook for holiday homework.
2. All Questions are compulsory.
3. Draw neat & clean figures wherever required.

### ASSIGNMENT

#### CHAPTER 1: RATIONAL NUMBERS

**Q 1.**  $\frac{1}{6}$  of the class students are above average,  $\frac{1}{4}$  are average and rest are below average. If there are 48 students in all, how many students are below average in the class?

**Q 2.**  $\frac{2}{5}$  of total number of students of a school come by car while  $\frac{1}{4}$  of students come by bus to school. All the other students walk to school of which  $\frac{1}{3}$  walk on their own and the rest are escorted by their parents. If 224 students come to school walking on their own, how many students study in that school?

**Q 3.** Huma, Hubna and Seema received a total of Rs. 2,016 as monthly allowance from their mother such that Seema gets  $\frac{1}{2}$  of what Huma gets and Hubna gets  $\frac{5}{3}$  times Seema's share. How much money do the three sisters get individually?

**Q 4.** A mother and her two daughters got a room constructed for Rs. 62,000. The elder daughter contributes  $\frac{3}{8}$  of her mother's contribution while the younger daughter contributes  $\frac{1}{2}$  of her mother's share. How much do the three contribute individually?

**Q 5.** Roller Coaster at an amusement park is  $\frac{2}{3}$  m high. If a new roller coaster is built that is  $\frac{3}{5}$  times the height of the existing coaster, what will be the height of the new roller coaster?

#### CHAPTER 2: COMPARING QUANTITIES

**Q 1.** If principal = Rs 1,00,000. rate of interest = 10% compounded half yearly. Find

- (i) Interest for 6 months.
- (ii) Amount after 6 months.
- (iii) Interest for next 6 months.
- (iv) Amount after one year.

**Q 2.** Babita bought 160 kg of mangoes at Rs 48 per kg. She sold 70% of the mangoes at Rs 70 per kg and the remaining mangoes at Rs 40 per kg. Find Babita's gain or loss per cent on the whole dealing.

**Q 3.** A shopkeeper was selling all his items at 25% discount. During the off season, he offered 30% discount over and above the existing discount. If Pragya bought a skirt which was marked for Rs 1,200, how much did she pay for it?

**Q 4.** Ayesha announced a festival discount of 25% on all the items in her mobile phone shop. Ramandeep bought a mobile phone for himself. He got a discount of Rs 1,960. What was the marked price of the mobile phone?

**Q 5.** A new computer costs Rs 1,00,000. The depreciation of computers is very high as new models with better technological advantages are coming into the market. The depreciation is as high as 50% every year. How much will the cost of computer be after two years?

### CHAPTER 3: DATA HANDLING

**Q 1.** Following are the number of members in 25 families of a village:

6, 8, 7, 7, 6, 5, 3, 2, 5, 6, 8, 7, 7, 4, 3, 6, 6, 6, 7, 5, 4, 3, 3, 2, 5.

Prepare a frequency distribution table for the data using class intervals 0 –2, 2 –4, etc.

**Q 2.** The marks obtained (out of 20) by 30 students of a class in a test are as follows:

14, 16, 15, 11, 15, 14, 13, 16, 8, 10, 7, 11, 18, 15, 14, 19, 20, 7, 10, 13, 12, 14, 15, 13, 16, 17, 14, 11, 10, 20.

Prepare a frequency distribution table for the above data using class intervals of equal width in which one class interval is 4 –8 (excluding 8 and including 4).

**Q 3.** The weights (in kg) of 30 students of a class are:

39, 38, 36, 38, 40, 42, 43, 44, 33, 33, 31, 45, 46, 38, 37, 31, 30, 39, 41, 41, 46, 36, 35, 34, 39, 43, 32, 37, 29, 26.

Prepare a frequency distribution table using one class interval as (30 – 35), 35 not included.

(i) Which class has the least frequency?

(ii) Which class has the maximum frequency?

**Q 4.** In a hypothetical sample of 20 people, the amount of money (in thousands of rupees) with each was found to be as follows: 114, 108, 100, 98, 101, 109, 117, 119, 126, 131, 136, 143, 156, 169, 182, 195, 207, 219, 235, 118.

Draw a histogram of the frequency distribution, taking one of the class intervals as 50–100.

**Q 5.** The probability of getting a prime number is the same as that of a composite number in a throw of a dice.

### CHAPTER 4: SQUARE & SQUARE ROOTS, CUBE & CUBE ROOTS

**Q 1.** A 5.5m long ladder is leaned against a wall. The ladder reaches the wall to a height of 4.4m.

Find the distance between the wall and the foot of the ladder.

**Q 2.** The perimeters of two squares are 40 and 96 metres respectively. Find the perimeter of another square equal in area to the sum of the first two squares.

**Q 3.** A three digit perfect square is such that if it is viewed upside down, the number seen is also a perfect square. What is the number? (Hint: The digits 1, 0 and 8 stay the same when viewed upside down, whereas 9 becomes 6 and 6 becomes 9.)

**Q 4.** 13 and 31 is a strange pair of numbers such that their squares 169 and 961 are also mirror images of each other. Can you find two other such pairs?

**Q 5.** What is the least number that should be subtracted from 1385 to get a perfect square? Also find the square root of the perfect square.

#### CHAPTER 5: LINEAR EQUATION IN ONE VARIABLE

**Q 1.** Rs. 13500 are to be distributed among Salma, Kiran and Jenifer in such a way that Salma gets Rs. 1000 more than Kiran and Jenifer gets Rs. 500 more than Kiran. Find the money received by Jenifer.

**Q 2.** The volume of water in a tank is twice of that in the other. If we draw out 25 litres from the first and add it to the other, the volumes of the water in each tank will be the same. Find the volume of water in each tank.

**Q 3.** Anushka and Aarushi are friends. They have equal amount of money in their pockets. Anushka gave  $\frac{1}{3}$  of her money to Aarushi as her birthday gift. Then Aarushi gave a party at a restaurant and cleared the bill by paying half of the total money with her. If the remaining money in Aarushi's pocket is Rs.1600, find the sum gifted by Anushka.

**Q 4.** Kaustubh had 60 flowers. He offered some flowers in a temple and found that the ratio of the number of remaining flowers to that of flowers in the beginning is 3:5. Find the number of flowers offered by him in the temple.

**Q 5.** The sum of three consecutive even natural numbers is 48. Find the greatest of these numbers.

#### CHAPTER 6: UNDERSTANDING QUADRILATERALS

**Q 1.** Two angles of a quadrilateral are each of measure  $75^\circ$  and the other two angles are equal. What is the measure of these two angles? Name the possible figures so formed.

**Q 2.** In a quadrilateral PQRS,  $\angle P = 50^\circ$ ,  $\angle Q = 50^\circ$ ,  $\angle R = 60^\circ$ . Find  $\angle S$ . Is this quadrilateral convex or concave?

**Q 3.** Both the pairs of opposite angles of a quadrilateral are equal and supplementary. Find the measure of each angle.

**Q 4.** Find the measure of each angle of a regular octagon.

**Q 5.** Find the measure of an exterior angle of a regular pentagon and an exterior angle of a regular decagon. What is the ratio between these two angles?

### CHAPTER 7: EXPONENTS & POWERS

**Q 1.** About 230 billion litres of water flows through a river each day. How many litres of water flows through that river in a week? How many litres of water flows through the river in an year? Write your answer in standard notation.

**Q 2.** A half-life is the amount of time that it takes for a radioactive substance to decay to one half of its original quantity. Suppose radioactive decay causes 300 grams of a substance to decrease to  $300 \times 2^{-3}$  grams after 3 half-lives. Evaluate  $300 \times 2^{-3}$  to determine how many grams of the substance are left. Explain why the expression  $300 \times 2^{-n}$  can be used to find the amount of the substance that remains after n half-lives.

**Q 3.** Consider a quantity of a radioactive substance. The fraction of this quantity that remains after t half-lives can be found by using the expression  $3^{-t}$ .

(a) What fraction of substance remains after 7 half-lives?

(b) After how many half-lives will the fraction be  $\frac{1}{243}$  of the original?

**Q 4.** One Fermi is equal to  $10^{-15}$  metre. The radius of a proton is 1.3 Fermis. Write the radius of a proton in metres in standard form.

**Q 5.** The paper clip below has the indicated length. What is the length in standard form.

### PROJECT WORK:

1. Make a project in which geometrical representation of square numbers and cubic numbers represented..

*Note\*: Kindly allocate the required number of questions.*

# SAINIK SCHOOL CHITTORGARH

## AUTUMN VACATION HOLIDAY HOMEWORK

### SUBJECT NAME – SOCIAL SCIENCE

CLASS & SECTION: VIII A, B, C

SUBJECT TEACHER NAME: CHANDRAPRAKASH

#### INSTRUCTIONS:

1. *Make a separate file for holiday homework.*
2. *All Questions are compulsory.*
3. *Draw neat & clean figures wherever required.*

### ASSIGNMENT

#### 1. Instructions

- (A). All work to be done neatly in your Social Studies Notebook / Chart Paper.
- (B). Diagrams and pictures should be neatly labelled.
- (C). Use A4 sheets for creative and project work.
- (D). Marks will be awarded for content, presentation, punctuality, and originality.
- (E). Every cadet must prepare to present one topic orally in class after vacation.

#### 2. Write the answers of following questions with utmost Sincerity and Honesty.

- (a) Prepare a timeline chart of important events between 1885 and 1947 (use colourful chart paper).
- (b) Collect 5 pictures related to India's national movement and write a short caption under each.
- (c) Write an article (200–250 words) on "How can we promote sustainable industrial development"?
- (d) Write an article (200–250 words) on "The Importance of Secularism in India."
- (e) Make a chart showing the three levels of government in India (Central, State, and Local).
- (f) Prepare a poster on "Be Prepared, Stay Safe: Earthquake / Flood Safety Tips."
- (g) List the **Do's and Don'ts** during any one of the following:- Earthquake, Cyclone & Fire accident (On Chart Paper)

# SAINIK SCHOOL CHITTORGARH

## AUTUMN VACATION HOLIDAY HOMEWORK

### INFORMATION

**SUBJECT NAME: HINDI**

**CLASS & SECTION: VIII – A, B, C**

**SUBJECT TEACHER NAME: BRIJENDRA KUMAR SINGH**

**INSTRUCTIONS:** सभी प्रश्न अनिवार्य हैं। प्रश्नों को क्रमानुसार हल करें।

### ASSIGNMENT

वसंत भाग 3 एवं व्याकरण

**प्रश्न 1.** अपनी पाठ्य पुस्तक पर आधारित सुदामा चरित पाठ की व्याख्या कीजिए।

**प्रश्न 2.** "भारत की खोज" पुस्तक के माध्यम से नेहरू जी के विचार एवं उद्देश्य को लगभग 400 शब्दों में व्यक्त कीजिए।

**प्रश्न 3.** राष्ट्रीय पर्व एवं धार्मिक त्योहारों के बारे में अपने विचार को लगभग 400 शब्दों में व्यक्त कीजिए।

**प्रश्न 4.** विशेषण की परिभाषा एवं भेदों को उदाहरण सहित लिखिए।

**प्रश्न 5.** दो औपचारिक एवं दो अनौपचारिक पत्र लिखिए।

# SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOLIDAY HOMEWORK

**SUBJECT NAME : SANSKRIT**

**CLASS & SECTION: VIII**

**SUBJECT TEACHER NAME : P CHANDRASEKHARAN**

**INSTRUCTIONS: - सर्वेषां प्रश्नानां उत्तराणि करणीयानि ।**

## ASSIGNMENT

1. इदम् अस्मद् एवं युष्मद् शब्दानां रूपाणि त्रिषु लिङ्गेषु हिन्दी शब्दार्थसहितं लिखत ।
  2. पठितपाठभागेभ्यः अव्यय शब्दान् एवं तुमुन् अन्त क्त्वान्त (तुमुन् क्त्वा आदि प्रत्यय) शब्दान् चित्वा वक्येषु प्रयोगं कुरुत ।
  3. लट्, लृट्, लङ् एवं विधिलिङ् लकारेषु हिन्दी अर्थ सहितं पञ्च पञ्च वाक्यानि लिखत ।
  4. पठित पाठभागेभ्यः लङ् लकारे प्रयुक्तानां वाक्यानां चयनं कृत्वा लिखत । न्यूनान्तिन्यूनं पञ्चदश वाक्यानि ।
  5. सदैव पुरतः निधेहि चरणं इति पाठं पुस्तिकायां लिखित्वा हिन्दीभाषायां अनुवादयत ।।
  6. किमपि विषयमधिकृत्य दशवाक्यानि लिखत ।
- कक्षाकार्याणि पूर्तिं कुरुत ।

*Note\*: Kindly allocate the required number of questions.*



# SAINIK SCHOOL CHITTORGARH

## SUMMER VACATION HOLIDAY HOMEWORK

### COMPUTER SCIENCE (AI & ROBOTICS)

CLASS & SECTION: VIII – A,B & C

SUBJECT TEACHER NAME: Ms Leena Sharma

- Complete all assignments and mail source files on leenasharma3678@gmail.com
- The certificate must be submitted in soft copy on above mentioned mail ID.
- Submit your work during the vacation and last day of vacation is deadline of submission.
- Marks will be given for clarity, creativity, and understanding of the topic.
- Book Reference: Computer Science Foundation, [Code Explorer 8](#)
- Project Learning Reference: <https://www.w3schools.com/>

#### CHAPTER 6: **Advanced HTML 5 (Code Explorer)**

1. Create an interactive Blog page (session 7, pg No 81)

#### CHAPTER 2: **Inside Internet (Computer Science Foundation)**

2. Create a presentation on Computer Networks – A base for the Internet (pg No 24)

#### CHAPTER 3: **Writing Blogs and Creating Websites (Computer Science Foundation)**

3. Create a blog using Blogger (content of your choice)
4. Build a Simple School Website using Google Website Creator (Pg no. 54)
5. Create your mail ID and share the above files on my mail ID.

#### **PROJECT WORK:**

**Title:** *Learn HTML and complete the certificate using below link (share your certificate with me on my Mail ID)*

Learn with following reference: <https://www.simplilearn.com/free-html-course-for-beginners-skillup>