

**Dr. Virendra Swarup Education Centre, Jajmau**  
**Holiday Homework**  
**Class: IX**

**English:**

1. Create an interview with the author Vikram Seth about his experience in Kathmandu (at least ten questions)
2. The poet Gieve Patel through the poem 'On Killing a Tree' highlights how man is recklessly destroying the green cover of the earth. Make a poster to create awareness for the same.
3. Do research on William Wordsworth and his Lusy Poems. Pen down an essay in 150-200 words.

**Maths :**

- 1) Art integrated Learning (to be done in a project file)  
To collect the population of 10 states of India and to represent it with different graphical forms i.e., Bar-Graph, Pie-chart, Pictograph, Frequency Polygon etc. Art form - Warli. Materials Required:- Coloured sheet, Ruler, Graph paper, Pen, Paper, Pencil, Glue, Scissor, Compass.
- 2) Solve NCERT exercises of the following chapters in your fair notebook.  
LINES AND ANGLES, TRIANGLES, QUADRILATERAL and CIRCLES

**CHEMISTRY:**

Solve 15 questions of HOTS from each of the following chapters from LMSK(book) in Chemistry Holiday Homework notebook :-

\*Is matter around us pure?

\*Atoms and molecules

\*Structure of atom

(Questions must be written along with the answers)

## **Biology**

### **1.S. Chand Refresher**

Do all questions and answers of the following chapters:

The Cell – The Unit of Life

Tissues

Improvement in Food Resources

Why Do We Fall III?

### **2.NCERT Exemplar**

Complete all questions and answers from NCERT Exemplar of the above-mentioned chapters.

## **Physics**

- Prepare a project file related to topic SOUND. Prepare the file showing the formation of longitudinal waves, Transverse waves, Various types of Musical Instruments, Difference between Noise and Music. Characteristics of Sound.
- Also draw a well labelled diagram of human ear.
- Solve the numericals of chapter Sound from LSMK in your Physics registers.
- Make a working model of Powerful Alarm using DC batteries.

## **Social studies**

### **Research/Model/Compare (Any two)**

Q1. Students will research at least one raw material from their tribal art and craft work. How and where are they cultivated in the state? Support it with photos.

Q2. Write about the cultural/ festive significance for any tribal art and craft form. Support it with photos.

Q3. Create a model of any tribal art and craft object of Arunachal Pradesh or Uttar Pradesh.

Q4. Compare the agricultural festivities between Uttar Pradesh and Arunachal Pradesh. Support it with photos.

Q5. Record a monologue of any one famous personality of Arunachal Pradesh and Uttar Pradesh.

### **Computer**

Artificial Intelligence (AI):

Present and Future

What is AI and How Will It Shape Our Future?"

Create a presentation of 30 slides on abovementioned topic by using open office impress.

### **विषय- हिंदी**

1. अपने क्षेत्र में सार्वजनिक नल लगाने हेतु नगर निगम के मुख्य अधिकारी को ई-मेल लिखें।
2. आपकी साइकिल की चाभी विद्यालय परिसर में खो गई है। विद्यालय की सूचना पट पर लगाने हेतु सूचना तैयार करें।
3. "अंधजल गगरी छलकत जाए" विषय पर लगभग 100 शब्दों में लघु कथा लिखें।
4. रेल द्वारा बुक करा कर भेजा गया घरेलू सामान आपके निवास के समीप स्टेशन तक नहीं पहुंचा है। इसकी शिकायत करते हुए रेल प्रबंधक को एक पत्र लिखें।

### **AI Holiday homework**

Make a practical file of Python programs. There should be total 15 programs. The list of programs is given below. Each program should be written in a comment sheet.

#### **1. PRINT**

- To find square of number 7
- To convert length given in kilometers into meters.
- To calculate Simple Interest if the principle amount = 2000, rate of interest = 4.5 time = 10

#### **2. INPUT**

- To calculate Area and Perimeter of a rectangle

- To calculate Area of a triangle with Base and Height
- To calculate average marks of 3 subjects
- To calculate Surface Area and Volume of a Cuboid

### **3. LIST**

- Create a list in Python of children selected for science quiz with following names- Arjun, Sonakshi, Vikram, Sandhya, Sonal, Isha, Kartik

Perform the following tasks on the list in sequence-

- Print the whole list
- Delete the name “Vikram” from the list
- Add the name “Jay” at the end
- Remove the item which is at the second position.
- Create a list num=[23,12,5,9,65,44]
- print the length of the list
- print the elements from second to fourth position using positive indexing
- print the elements from position third to fifth using negative indexing
- Create a list List1= [10, 20, 30, 40 ]. Add the elements [14, 15, 12 ] using extend function. Now sort the final list in ascending order and print it.

### **4. IF, FOR, WHILE**

- Program to check if a person can vote
- Input a number and check if the number is positive, negative or zero and display an appropriate message
- To print odd numbers from 1 to n
- To print sum of first 10 natural numbers
- Program to find the sum of all numbers stored in a list