



# St. James School

## HOLIDAY HOMEWORK

### CLASS – 10

# Happy Summer Vacation



Summer holiday homework aims to keep students mentally active during long breaks and prevent learning loss, often called the "summer slide". It encourages self-discipline, independent research, and practical learning through creative projects, reading, and hands-on activities, ensuring a smooth transition back to the classroom. So parents are requested to do the students all the work by themselves, you can facilitate them but do not do their work. We wish you a healthy and happy holidays.

### Hindi

नोट:- कार्य साफ- सुथरी लिखावट में लिखें । सभी कार्य अलग-अलग रंगों से सजाएं । समय पर गृह कार्य पूरा करें।

1. अपने मित्रों को ग्रीष्मकालीन अवकाश कैसे बिताया इस विषय पर एक पत्र लिखें
2. प्राकृतिक संरक्षण पर एक सुंदर पोस्ट चार्ट पेपर पर बनकर तैयार करें।

### English

- Q1. Write the character sketch of Lencho from the chapter "A Letter to God."
- Q2. Write the summary of the poem "Dust of Snow."
- Q3. What message do you get from the chapter "Nelson Mandela: Long Walk to Freedom"?
- Q4. Write 10 difficult words from Chapter 1 with meanings.
- Q5. Write the central idea of the poem "Fire and Ice."

### Activity

Make a chart on: "Important Characters from First Flight Book"

### Practical Work

Read any one chapter from First Flight and write:

- Name of the chapter
- Main characters
- Moral of the chapter
- Your favourite line from the chapter.

### Science

#### Physics :

A – Prepare the tabular display of all the cases of image formation by concave and convex mirror along with proper neat ray diagrams of the same.

- B. Prepare the tabular display of all the cases of image formation by convex and concave lens along with neat and clear ray diagram of all the cases.
- C. With proper ray diagram derive the relation between focal length and radius of curvature. Hence establish the mirror formulae.
- D. With proper ray diagram establish the lens equation for convex and concave lens.
- E. Make a systematic chart of all the important formulae and sign convention for mirrors and lenses.
- F. Make a list of atleast ten uses of concave and convex mirrors in our daily life around us.
- G. Make a small investigation of any one important aspect of light in your life near or around you and record your observations in copy. Your investigation will be discussed in class
- H. Read chapter Light and prepare 20 Questions which are frequently asked in board examination.

### **Chemistry:**

- A - 1. Prepare a detailed report on Types of Chemical reactions (20 each),
- 2. Using a pH strip categories the naturally occurring substances as acids, bases & neutral compounds (water, coffee, onion peel, milk, mustard oil, lemon juice, carbonated drink etc) OR Prepare a detailed report on natural & man made acids.
- B - Read chapters 1st & 2nd and prepare 20 Questions from each chapter of your own and answer those questions.

### **Biology:**

- A - Make an investigatory project report on "Diabetes mellitus" emphasizing the following points (i) Diabetes mellitus and its cause, (ii) Symptoms of the disorder, (iii) Precautionary measures, (iv) Treatment of the disorder, (v) A case study
- Instructions: (i) Write the project report on A4 size plain paper in your own hand writing, (ii) Paste concerned colourful pictures, cuttings from magazines and newspapers, data etc., (iii) The project
- B - Read chapter Life. Processes and prepare 20 Questions from each Life process of your own and answer those questions.

### **Maths:**

- 1) Do practice RS AGARWAL chapter 1 to 8 in RS copy.
- 2) Write any four projects out of given topic in maths activity copy elaborately with colourful work: (Atleast 1000 words for each project)
- Topic list
- 1. With cuboids of given surface area, finding the one with maximum volume and with cuboids of given volumes finding one with least surface area..
- 2. Story of  $\pi$ .
- 3. Development of Number Systems with their needs.
- 4. Chronology of Indian Mathematicians with their contributions.
- 5. Chronological development of solution of a quadratic equations.

### **History**

- Make a timeline of important events from 1789 to 1871.
- Paste pictures of national leaders and write 2 lines about each.
- Prepare a collage on the French Revolution.

### **Geography**

#### **Topic: Resources and Development**

- Make a soil profile model using coloured paper.
- Draw and label a map of India showing major soil types.

### **Political Science**

#### **Topic: Power Sharing**

- Make a poster on "Unity in Diversity".
- Prepare a chart explaining different forms of power sharing in India.

### **Economics**

#### **Development goals.**

Prepare a comparison chart of rural and urban lifestyles.

Collect information about literacy rate and per capita income of our state and make a detailed list of it.

### Art

- Choose any ONE:
- Indian Freedom Struggle
- Natural Resources of India
- Fundamental Rights
- Sustainable Development

Prepare:

Scrapbook

Model

Poster

PPT or Chart

Q1. What is communication? Explain its types.

Q2. What is an Operating System? Write any 5 functions of OS.

Q3. Difference between Hardware and Software with examples.

Q4. What is Spreadsheet? Write any 5 uses of LibreOffice Calc.

Q5. What is Database Management System (DBMS)? Write its advantages.

Activity

Make a colorful chart on: "Communication Cycle"

(Include Sender, Message, Receiver, Feedback with diagram)

Practical Work

Create a simple marksheet in LibreOffice Calc containing:

- Student Name
- Roll Number
- 5 Subjects Marks
- Total
- Percentage

Use formulas for Total and Percentage.