

" For I know the plans I have for you, declares the Lord, plans to prosper you and not to harm you, plans to give you hope and a future". Jeremiah 29:11

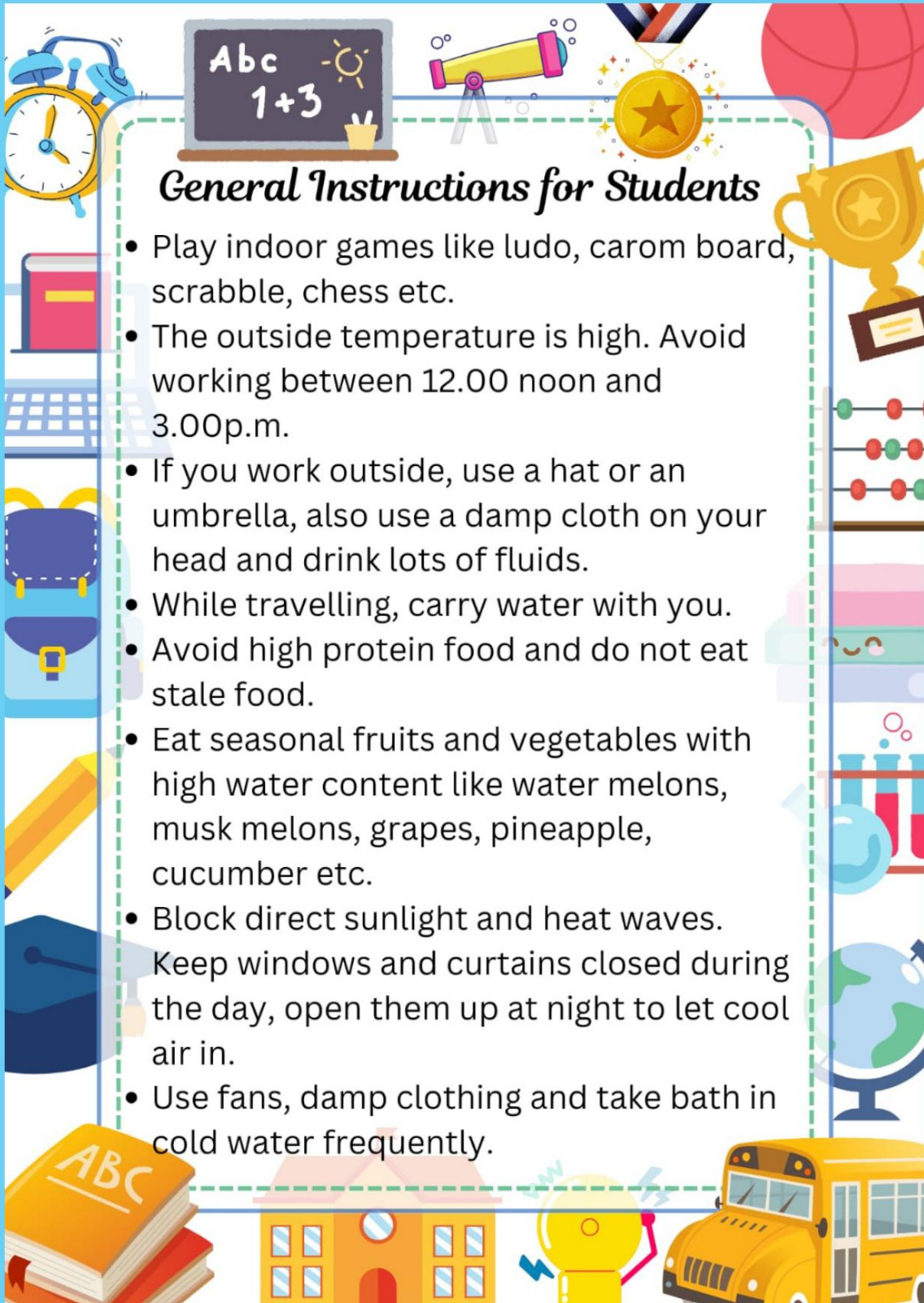


## MOUNT CARMEL SCHOOL, CHANDIGARH

### HOLIDAYS ASSIGNMENT SESSION 2024-2025 CLASS XII SCIENCE STREAM

#### *General Instructions for Holidays Homework:-*

- Holiday Home Work should be done as per the instructions given.
- Assessment will be done based on originality, creativity, neat handwriting, presentation and submission of work on time.
- Revise all the concepts done so far.
- Parents are requested to encourage their ward to do their homework independently.
- Parents can extend guidance to their children if needed.
- Control Screen time: Do not let children spend too much time playing video games, instead encourage them to take up creative pursuits.
- Help them to understand the need to reduce wastage.



## *General Instructions for Students*

- Play indoor games like ludo, carom board, scrabble, chess etc.
- The outside temperature is high. Avoid working between 12.00 noon and 3.00p.m.
- If you work outside, use a hat or an umbrella, also use a damp cloth on your head and drink lots of fluids.
- While travelling, carry water with you.
- Avoid high protein food and do not eat stale food.
- Eat seasonal fruits and vegetables with high water content like water melons, musk melons, grapes, pineapple, cucumber etc.
- Block direct sunlight and heat waves. Keep windows and curtains closed during the day, open them up at night to let cool air in.
- Use fans, damp clothing and take bath in cold water frequently.

## **ENGLISH:**

### **Suggested Reading Books for Students**

1. "The Wings of Fire" (Autobiography of APJ Abdul Kalam)
2. "The Good Earth" by Pearl S. Buck

\*Students are encouraged to read these books, which are also available in Kindle versions.

Craft an alternative cover page for one of the suggested reading books. This redesigned cover page is intended to offer a fresh interpretation while upholding the thematic integrity of the book.

### **Writing Assignment:**

- Students are required to paste a minimum of 5 cuttings of Notices, Letters to the Editor and Articles from English newspapers in their registers.

### **English Project:**

Students are assigned the task of preparing an English project in accordance with the guidelines set by CBSE (Central Board of Secondary Education).

## **MATHEMATICS:**

Note : Do the following activities:

1. Prepare a File illustrating the concept of INJECTIVE AND SURJECTIVE FUNCTIONS giving different examples with the help of Arrow Diagrams.
2. Explain Inverse Trigonometric Functions using graphs with special emphasis on  $\sin x$  and its Inverse, thus explaining the concept of MIRROR IMAGE

## **CHEMISTRY :**

1. Investigatory project according to the topics discussed in the class.
2. Make mind map of L-1 'Solutions' and L-2 'Electrochemistry'.

## **PHYSICS:**

1. Prepare an investigatory project with a detailed report and working model as per the topic discussed in class.
2. Prepare Mind Maps for:  
Chapter-1 : Electric Charges and Fields  
Chapter-2 : Electric Potential and Capacitance  
Chapter-3 : Current Electricity

## **BIOLOGY :**

Concept Map

Dear Students, You will prepare a detailed concept map/pictorial design for all the Chapters mentioned below in your fair notebook.

Chapter 1 Sexual Reproduction in Flowering Plants.

Chapter 2 : Human Reproduction

Chapter 3: Reproductive Health.

- **Art Integrated Project:**

Choose any topic of your interest from the Class XII NCERT and present it in an artistic manner as discussed in the class.

**INFORMATION PRACTICES:**

1. Do 15 Python Programs using Python Pandas including 4 based on Matplotlib. Take the printout of Input and Output both and submit the same in your practical file.
2. Decide the topic of IP project work, which is to be done in group of 2-3 students and start working on it. Make sure the use of all the libraries of Pandas and Matplotlib in your project. Make use of Mysql and Importing and Exporting data between CSV files and Dataframe. Submit project synopsis of your project after summer vacations.

**PHYSICAL EDUCATION:-**

Revise the following chapters-

L-1 Management of Sporting Events

L-2 Children and Women n Sports

Complete the Physical Education Practical File

Practical numbers 1 -4