



SOUTH POINT WORLD SCHOOL MURTHAL

SUMMER VACATION



Holidays

Homework

SESSION - 2024-25
CLASS - XII SCIENCE

Dear Parents

Summer Vacation brings a lot of happiness, laughter, fun and frolic for the children. It is the time to refuel and refresh the energies of the children. It is also an ideal time to channelize the inherent potentialities of the children to some productive gains. So, we want you to keep some semblance of academics alive in fun during the summer vacation by involving your ward/s in the following: -

- Teach your ward to schedule everything by making a timetable.
- Ensure that your ward is regular in doing the Assignments.
- Encourage your ward to read a book/ newspaper/parable etc. to whet his/her Reading Skills.
- Involve him/her in the games and activities related to the academics.
- "Make sure that your ward spends time judiciously and his/her vacations are fun- filled and academically meaningful.
- Also ensure the timely submission of the Assignments/Homework by your ward.

Instructions to be followed:

- Work should be Presentable, Creative and Errorless.
- It should be neat and sheen.
- Timely -Submission is mandatory i.e. by JULY 6, 2024.

General Instructions:

- ❖ Homework to be done in separate notebook.
- ❖ Writing must be neat and clean.
- ❖ All the students have to submit a one-minute video to their respective class teacher while doing yoga on 21st June as an activity for International Yoga Day.

STAY SAFE! STAY HAPPY!

English

General instructions:

Presentation, Creativity, Neatness, Errorless work and Timely submission are very important points to be taken care of while doing the Summer Break Assignment

Section- A (Reading Skill)

(Let's Read, Comprehend and Answer)(Do any five)

1. Select the Articles/ write ups on - "Science", "Cleanliness", "Sports", "Food Habits", "Lok Sabha Elections, 2024", "Empowerment", "Education", each containing 250-300 words from the English News paper. Cut the Articles and past them in your notebook. Frame 8 questions on each of them and write the answers also.

Section - B (Creative Writing Skills)

(Let's Compose)

1. Write any four notices.
2. Write Articles on:-
 - i) Women Empowerment.
 - ii) Artificial Intelligence: Boon or Bane.
 - iii) Education and Career
 - iv) Discipline
 - v) Environment and Sustainability
 - vi) NEP 2020

Note: Writing section is to be done in English fair notebook.

Section - C (Literature)

(Let's Check Literary Flavour)

Flamingo-Revise the following chapters thoroughly.

Ch-1 The Last Lesson, Ch- 2 Lost Spring,

Poem-1 My Mother at Sixty Six

Vistas - Ch-1 The Third Level

Read the following chapters for teaching in the class. (Flipped Classroom Activity)

- Flamingo - Ch - 3 Deep Water
- Vistas - Ch- 2 The Tiger King

Creativity - At a Glance

(Let's Design)

1. Design a first day cover.
2. Design and Invitation Card for 'Annual Day Celebration' and for 'Teachers Day Celebration' on A - 4 Sheet.

(Art Integrated Activity)(Do any one)

1. The Last Lesson told us about the importance of one's native language, the importance of a teacher and education. Make a PPT (5-6 Slides)/Project on the native language of Manipur (the language which is spoken in Manipur) and Haryana. PPT/Project should also include the origin of their language, similarities/differences
2. Write about any famous academican of Manipur and Haryana. Paste their photographs on A4 size sheet .Write about their birth, education and special achievement.

PORTFOLIO: Prepare a portfolio with the following– (Prepare a file with A4 size sheets)

- ❖ Introduction
- ❖ My strengths
- ❖ I need to improve on...
- ❖ My Ideal Person
- ❖ My achievements
- ❖ I have participated in...
- ❖ The books I have read
- ❖ The book I wish to read
- ❖ The Teacher I admire the most....

- ❖ My Best Friend
- ❖ I aspire to be

BIOLOGY

1. Learn and write the exercises of the Ch -2 Sexual reproduction in flowering plant, Ch-3 Human Reproduction, Ch-4 Reproductive health.
2. Write the practical file experiment upto 10 complete.
3. Revise chapters and do the following
 - a) Do all the NCERT questions of these the chapters in your notebook with all NCERT Exemplar.
 - b) Draw all the diagrams of these chapters in your notebook.
4. Practice monohybrid and dihybrid crosses example along with blood groups.
5. Solve the worksheets which will be uploaded on the School App.

PHYSICS

1. Write any three activities from section A and three activities from section B in your practical file.
2. Make working model explaining any phenomena of Physics and prepare project report.
3. Do all the NCERT numericals of electrostatics in your Holiday Homework notebook.
4. Do 20 numericals on Kirchoff law.
5. The assignments will be sent on the school app .Solve the given assignments in your holiday homework notebook

CHEMISTRY

1. Learn and Write In text and NCERT questions answers of Unit-1 (Solutions), Unit-10 (Biomolecules), in your fair notebook.
2. Make a project report of Chemistry from your syllabus (Students you can take help of you tube and Google for this). This is compulsory for all students.
3. Learn and Solve given Assignment in your fair notebook which will be uploaded on School App.

MATHEMATICS

1. Do the following topics from NCERT Exemplar:

- ✓ CH-1 Relations and Functions.
- ✓ CH-2 Inverse Trigonometric Functions.
- ✓ CH- 3 Matrices.
- ✓ CH- 4 Determinant.
- ✓ CH- 5 Continuity and Differentiability.
- ✓ CH-12 LPP

(Learn and Write All Formulae's of the above chapters).

❖ Do the following activities in Maths Lab Manual :

- ✓ Activity no.-6 & 7 (Based on Inverse Trigonometric Functions)
- ✓ Activity no.-13 & 14 (Based on Application of Derivatives)
- ✓ Activity no.- 28 (Based on Conditional Probability)
- ✓ Activity no.- 19 (Definite Integration)
- ✓ Activity no.- 22 & 24 (Based on Vectors and 3-D Geometry)

3. Do the Assignments which will be uploaded on "Parent School App" during summer vacations.

4. Prepare a project on Manipur. Comparing the following data's with Haryana State:

- | | | |
|-------------------|--------------------|--------------------|
| a) Education data | b) Population data | c) Sex Ratio |
| d) Agriculture | e) Mathematicians | f) Lok Sabha Seats |

5. Prepare a portfolio on any topic from your syllabus. (Students you can take help of You Tube and Google for this).

Physical Education

1. Read, Learn and prepare notes of the following units:
Unit-1 Management of Sporting Events
Unit-3 Yoga as preventive measure for life style disease.
2. Make a Record File on topic "Yoga and lifestyle disease". Your Record File must include the following:
 - Introduction
 - Index
 - Acknowledgement
 - Bibliography
 - Passport size photograph
3. Make a chart on 400 meter track:
 - Introduction
 - Index
 - Event

Information Practice

1. Make a Chart on the topic Societal Impact.
2. Make an assignment on A4 Sheet including programs:
 - ✓ Write a program to create a series using list with defined index values.
 - ✓ Write a program to create a series using list with defined index values and slicing data from a series.
 - ✓ Write a program to create a series using a list with defined index values with local and iloc.
 - ✓ Write a program to create a series using Dictionary.
 - ✓ Write a program to create a series through a mathematical expression.
 - ✓ Write a program to create a series using head () and tail () functions.
 - ✓ Write a pandas program to create a data frame from sample data
#sample data: {'x': [22, 33, 44, 55, 66, 77], 'y': [34, 45, 56, 67, 78, 89]}
 - ✓ Write a pandas program to create a data frame using dictionary of list method.
 - ✓ How to rename Data Frame columns name in pandas?
 - ✓ How to select multiple columns in a pandas Data Frame?
 - ✓ How to convert column with type as in it to Date time in pandas Data frame?
 - ✓ Revise Ch-1 Python Pandas 1, Ch-2 Python Pandas 2 and solve Assignment questions of these chapter.