

ST. COLUMBUS SCHOOL
DAYALBAGH, FARIDABAD
HOLIDAY HOMEWORK FOR SUMMER BREAK (2022-23)
CLASS – XII(SCIENCE)

Dear Students,

Important Instructions-

1. Use Holiday Homework as an opportunity to spend quality time together.
2. Do all the work in A4 size sheet and put them in separate folders.
3. Read books! May it be fables, fairy tales, encyclopedia, comic books or newspaper. Explore the imaginative world and go on a fantasy tour.
4. Enhance your communication skills by conversing with your family members in English.
5. Revise syllabus done so far.
6. Take up yoga or any other healthy activity during the vacation and share videos on daily basis with your class teacher.
7. Social distancing and good hygiene are the best protection for yourself and others against covid-19. Stay at least 6 feet away from others to avoid any contact with another person. Wash your hands frequently with soap and water, scrubbing at least 20 seconds, or use an alcohol- based hand sanitizer.
8. Proper nutrition and hydration are vital. So, follow a healthy diet at home.

A BALANCED DIET

The healthy diet for healthy people



HEALTHY FOOD MAKES HEALTHY BODY AND MIND

ENGLISH

Based on the detailed study and observation of various events from the prescribed chapters and the poem, you need to perform the given activities:

1. How important, do you consider, is one's mother tongue? How it helps us to unite? Was that our mother tongue that united us during the British rule? (**The Last Lesson**)
2. Interact with **THREE** different child labourers and jot down the kind of life they lead, challenges they suffer, their living conditions, employment, justice and help extended by system, etc and how they feel crushed and cursed in their surroundings. **ONE** of the **THREE** must be in conversational format and rest be in Report. (**Lost Spring**)
3. Jot down the various phobia(s) you hold untold and explain in detailed what efforts you have made to conquer the same. How did the aversion begin? Who and how he/she helped to overcome? When did you realize you became free from fear? Mention your logical strategy. (**Deep Water**)
4. Plan an interaction with one of the old member (above 60) in your family or neighborhood and note down what they intend to enjoy at their old age. Do mentions the personal details also. What kind of social, mental and personal challenges they face and how bravely they tackle and overcome them? (**My Mother at Sixty Six**)

Note : Do revise the chapters and the poem effectively before writing. The activity must be a genuine one and self explored and within **250** words each.

PHYSICS

1. Prepare Physics practical File as per given guidelines.
2. Prepare a project on any of the given topics
 - i. To study the charge and discharge of Capacitor
 - ii. To Study the Ohm's Law and resistance
 - iii. To Study the series and parallel combination of the resistors

CHEMISTRY

3. Prepare Chemistry practical File as per given guidelines.
4. Prepare flowchart of preparation and properties of Alkyl Halide in the notebook.

MATHEMATICS

Write these activities in Math lab activity file.

1. To understand the concept of Increasing and Decreasing function.
2. To understand the concept of absolute maximum and minimum values of a function in a given closed interval through its graph.

3. To construct an open box of maximum value from a given rectangular sheet by cutting equal square from each corner.

BIOLOGY

I. Write the following practicals in a practical file.

1. Prepare a temporary mount to observe pollen germination.
2. Study the plant population density by quadrat method.
3. Study the plant population frequency by quadrat method.
4. Prepare a temporary mount of onion root tip to study mitosis.
5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.

II. Make an investigatory project on topic of your choice .

COMPUTER SCIENCE

1. Prepare your Programming File containing 20 questions from Python and 15 Queries from SQL.
2. Prepare the synopsis of your Project.

PHYSICAL EDUCATION

Make a First Aid Box with a Red Cross on it having the following First Aid Tools –

- Boroline or Boroplus
- Soframycin
- Dettol or Savlon
- Neosporin
- Crocin
- Bandage
- Cotton
- Band-Aid Strips.

Be Happy By Doing Good

1. Spare some time and help your mother in household work. Talk to your parents and elders and learn values.
2. Adopt the habit of reading newspaper and learn new words and expressions.
3. Read at least two books (Hindi & English) apart from prescribed syllabus.
4. Respect flora and fauna (Plants and Animals). Keep your home and surroundings clean. Plant at least 5 saplings.
5. Keep water for birds and stray animals outside your house or in balcony.
6. Food is equal to God. So avoid wasting of food.
7. Try to share your knowledge and donate old books and notebooks to the underprivileged and deprived children of your locality.
8. Maintain a diary in English & Hindi and write your experience along with daily routine during summer break. It will help you in enriching your vocabulary and writing skills.



ENJOY YOUR SUMMER BREAK.....