

DELHI PUBLIC SCHOOL, JAMMU
Summer Holiday's Homework (2021-2022)
Class: XII
Subject: Chemistry

“The secret of getting ahead is getting started. The secret of getting started is breaking your complex, overwhelming tasks into small manageable tasks, and started on the first one.”

Chemistry helps you to understand the world around you. It helps us visualize and articulate our rationale for the steps in solving a problem

I. Make a investigatory project report on any one of the following topic:

- 1) On green chemistry- Bio-diesel and bio-petrol
- 2) On sterilization of water using bleaching powder
- 3) On analysis of fertilizers
- 4) On measuring the amount of Acetic acid in vinegar
- 5) On determination of contents of cold drinks
- 6) To study the quantity of casein in milk
- 7) On presence of insecticides and pesticides in fruits and vegetables
- 8) On preparation of soya bean milk
- 9) On study of rate of fermentation of juices
- 10) Determination of caffeine in tea samples
- 11) Determination of content of toothpaste
- 12) Dyeing of wool, silk and cotton in malachite green
- 13) Effect of Potassium bisulphite as a food preservatives

How to write an investigatory project:

Students are required to get their project report handwritten on inter-leaf sheets and to represent in the best possible manner. The project report should be written in the following sequence:

Title / Aim – Name of the project.

Introduction – Information collected from various sources related to the topic.

Observations – Record your observations / data in the form of tables, graphs, photographs, etc.

Results / Conclusion – Give analysis of the data and compare your results with those available in the literature and draw conclusions.

References – Give the list of books, internet websites, magazines or journals you have consulted, for the project work.

II. Revise your syllabus and make a small power point presentation on Solid state.

III. To study the effectiveness of different common oils in forming emulsions and give the decreasing order of stability or effectiveness. (Make a video on this experiment)

References:

- ✓ <http://www.icbse.com/>
- ✓ <http://www.sciencedaily.com/>
- ✓ <http://www.digg.com/>

Note -

1. Send your Holiday Homework by e-mail to your respective Subject Teacher by 13th of July, 2021. Your submission will carry 4 marks (2 marks- Subject Relevance & Research, 2 marks- Handwriting).
2. Practice for your Homework/ Project Presentation (5-6mins) to be held during virtual class after holidays. It will carry 6 marks. (2 marks- Confidence, 2 marks- Subject Clarity, 2 marks- Presentation Skills).

The schedule for presentation will be shared later. The teacher may ask 1 or 2 questions during the presentation

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Students must mention their names, class, roll no. /section in their Holiday's Homework, it is mandatory for you to submit it.

*Happy holidays
Stay fit, healthy, safe and
at home*

