



Banyan Tree School

Chandigarh

Holiday Assignment

Summer 2022-2023

Class: X

MATHEMATICS

Activity 1: LAB ACTIVITY – To be done in Activity notebook (**Art Integrated**)

- To understand and appreciate the use of coordinate geometry in navigation Plot the coordinates (x, y) of the following cities of India and find the distance in km between two cities.

Find the distance of following cities R.No 1 to 7.

- 1) Chandigarh to Kolkata
- 2) Chandigarh to Chennai
- 3) Chandigarh to Delhi

R. No 8 to 14

- 1) Srinagar (Kashmir) to Kanyakumari
- 2) Mumbai to Goa
- 3) Chandigarh to Mumbai

R. No 15 to 20

- 1) Delhi to Jaipur
- 2) Chandigarh to Amritsar
- 3) Last Village of East to Last village of West

Execution of task

- Make a Grid on Map of India
- Take capital of M.P. as origin
- Plot the points (x, y) on Map
- Find the distance between two cities by using distance formula.

Activity 2 : Probability demonstration with the help of

- a) 1 coin, 2 coins, 3Coins
- b) 1 die, 2 dice
- c) Playing cards

Throw coins and note down its total

outcomesThrow dice and note down its total

outcomes

Activity 3:

Find out more about following

Scientists: Pythagoras,

Thales and Ramanujan

Use pictures and articles and write in detail about their work in lab manual.

SCIENCE

LET US EXPLORE EVERYDAY CHEMISTRY

(Do your work in practical file.)

PRACTICAL # 1

Performing and observing the following reactions and classifying them into:

- A. Combination reaction
- B. Decomposition reaction
- C. Displacement reaction
- D. Double displacement reaction
- (i) Action of water on quicklime
- (ii) Action of heat on ferrous sulphate crystals
- (iii) Iron nails kept in copper sulphate solution
- (iv) Reaction between sodium sulphate and barium chloride solutions.

PRACTICAL # 2

Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:

- i) $\text{ZnSO}_4(\text{aq})$
- ii) $\text{FeSO}_4(\text{aq})$
- iii) $\text{CuSO}_4(\text{aq})$
- iv) $\text{Al}_2(\text{SO}_4)_3(\text{aq})$

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

ART AND INTEGRATION

Chemistry :What to do:

- Make a calendar using chemistry topics.
- Starting with alphabets in the the name of month
- .Add pictures and description also.

Eg. feBruary B stands for beaker then draw or paste pictures of different beakers used in lab.

(A4 size coloured sheets)

Physics :

As the demand for energy has increased, so has the number of alternatives for its production. One such alternative is a biogas plant.

- What to do:** 1. Explore and find out the biogas plants located in different parts of India.
2. Research out the various raw materials used, and the components used in setting up a biogas plant.
3. Study the cost of setting up the plant.
4. List down the benefits of using biogas plants. **(Prepare 400- 500**

words report on the topic) Where

to do: A4 size sheets

Parameters: 1. Accuracy 2. Relevance 3. Presentation

Biology

Application of Technology to Cure Renal Failure

1. Students are required to make a 3-D model of dialysis machine using eco friendly materials viz.paper straws, clay, cardboard, etc .
2. Also, 80-120 words write up on A4 size sheet(s) elaborating on what dialysis is ,its working andthe significance of technology to cure the fatal disease i.e. kidney failure.

PUNJABI

ਕਿਸੇ ਦੇ ਲੇਖਕਾਂ ਜਾਂ ਕਵੀਆਂ ਦੀ ਜੀਵਨ ਬਾਰੇ ਦੱਸਦੇ ਹੋਏ ਉਨ੍ਹਾਂ ਦੀ ਕਹਾਣੀਆਂ ਤੇ ਕਵਿਤਾਵਾਂ ਦੀ ਸਮੀਖਿਆ ਕਰਦੇ ਹੋਏ ਚਿੱਤਰ ਸਹਿਤ ਪੋਰਟਫੋਲੀਓ ਤਿਆਰ ਕਰੋ।

COMPUTER SCIENCE

1. Make a PowerPoint Presentation on Word Processing Software. : Max. 15 Slides
2. Complete the back exercise of Digital Documentation in your computer notebook.

SOCIAL SCIENCE

Prepare a project file with following details :

1. The total Length of the project report should not be more than 10-12 written pages, A4 Size sheet.
2. The project report should be handwritten and credit will be awarded to original drawing , illustrations and creative use of eco-friendly material.
3. The project report should be developed and presented in this order.
 - (a) Cover page showing project title, student information, school and Year.
 - (b) Certificate Page
 - (c) Acknowledgement
 - (d) Index –List of content with page numbers.
 - (e) Introduction
 - (f) Relevant content with headings.
 - (g) Summary and Conclusions based on findings.
 - (h) Bibliography : should have the title , author , Publisher and if a website is used then the name of the website with the specific website link which has been used.

Projects (Choose any one Topic)

Consumer Awareness

The project report must cover the following :

- Meaning Of consumer awareness
- Forms of consumer Exploitation / Malpractices
- Factors causing exploitation of the Consumers
- Enactment of COPRS 1986 and its benefits
- Role of WTO in protection of Consumers
- Rights and Duties of the Consumers
- Consumer Protection Measures
- Relevant Case studies (any two)

OR

Social Issues

Prepare a project on any three of the following Social Evils still prevailing in our society, highlighting

The reasons, effects and suggest solutions to get them eliminated from the country.

- Poverty
- Illiteracy
- Corruption

- Gender Inequality
- Inflation, hoarding and panic buying during Pandemic.
- Domestic Violence against women and children

The children must write about following Key matter :

- Defining the Social Issue along with their types (if there is any).
- Reforms/ Measures taken by the government to combat the Social Issue.
- Role of Popular leaders or any Social movement took place in the past to highlight/ solve the Issue.
- Suggesting ways and means to solve the Social Issue.

OR

Sustainable Development

The students must write about the following:

- Meaning of sustainable Development.
- Need of Sustainable Development
- Importance of Sustainable Development.
- Policies Initiated/ Steps taken/ measures adopted by the government to ensure sustainable development.

Project Work will be assessed on following parameters:

S.No	Aspect	Marks
1.	Content accuracy, originality and analysis	2
2.	Content accuracy, originality and analysis	2
3.	Viva Voice	1

ENGLISH

Activity 1

1) Create Portfolios of following English poets.

Group 1: John Keats (R. No- 1-5)

Group 2: Robert Frost (R. No- 6-10)

Group 3: T S Elliot (R. No- 11-15)

Group 4: William Wordsworth(R. No- 16-21)

In the portfolio write about their

- Childhood days
- Any important event or episode in their life which turn out
- Critical Analysis of their any two poems.

Activity 2

Book Jacket Making (individual Activity)

- Create a book jacket for your favourite book (any book) or the latest one you've read and thought it could be represented better.
- Remember that it comprises of a clear title and author name, a graphic design that reflects the books themes, a summary of the plot without giving away the ending, a review (opinion) about the book.

Activity 3

Diary entry is an excellent way to express your feelings.

Diary entry is an excellent way to express your feelings. Write diary entry of any five memorable days of your summer vacations.
