Summer Vacation Holiday Homework
CLASS X

It's time for a fun filled and relaxing summer break. However, during the long scorching summer months, when you are at home, time must be spent meaningfully and interestingly so that you keep in touch with school work and have lots of fun. The teachers have worked upon some ways of keeping you busy!

ENGLISH

Q1. Choose any author of your choice and read any of his or her work. Create any one of the following:
Poem based on the book
Game based on the book
A series of paintings based on it - minimum 4

Q2.'The Diary Of Anne Frank' is a 1959 film based on the Pulitzer prize winning play of the same name, which is based on the diary of Anne Frank. This diary is the long reading text prescribed by CBSE for extensive study. Make sure that you read the book as well as watch the movie.

Q3.Write articles on the following topics (150 words):
(i) High –tech devices -blessing or boon.
(ii) Environmental Degradation
(iii) Unplanned and Haphazard Urbanisation

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हिंदी

1.परियोजना कार्य: समय का जीवन में महत्व बताते हुए, आप अपने समय का सदुपयोग कैसे करते

समय सारिणी के माध्यम से अपनी दिनचर्या बताते हुए सचित्र एक परियोजना तैयार कीजिए।

2.दिल्ली के ऐतिहासिक स्थलों को संक्षिप्त जानकारी के साथ पी.पी.टी. के माध्यम से दर्शाइए।

3. किसी भी दैनिक उपयोग की वस्तु का एक प्रभावशाली विज्ञापन तैयार कीजिए।

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MATHS

1. Surface Area & volume:

   Write definitions and related formulas of all Solid figures.

   Draw figures of at least two articles by using combinations of solid figures and find their

   surface area and volume.(Take help of NCERT book)

2. Probability:

   Write all the related terms of Probability and outcomes by:

   i) tossing of 1 coin, 2 coins and 3 coins

   ii) throwing of 1 die and 2 dice

   iii) outcomes of 52 playing cards by using art integration.

Note: Show your creativity by using best out of waste to complete your art integrated project.

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SCIENCE

- **Perform a simple activity to demonstrate the concept of electric potential using waste bottles. Click pictures or prepare a video explaining the concept of electric potential. (You can refer to the youtube link :https://www.youtube.com/watch?v=SNlOPxZ-Ev4)**

- **Following are some fun Science riddles. Solve the riddles given**

▢ You have a glass of water and a glass of milk. You need to empty the two liquid into a barrel such that
1. The two liquids (water and milk) can be differentiated
2. You are able to separate milk and water.

Note: Any type of divider in the box is not allowed.

▢ We have two identical balls in terms of diameter and weight. However, one of them is solid and the other is hollow.

Without knocking the ball, can you find the solid ball?

▢ Astrology starts with the alphabet A.
Biology starts with the alphabet B.
Limnology starts with the alphabet L.

Can you find an 'ology' that begins with a P?

▢ A well-known chemist named from London was murdered during his visit to Calcutta(India).
He left a note "76-20-44 79-16-22-7"

A local detective Byomkesh Bakshi was called to solve the case,
Chemist five assistant is under suspicion of killing the chemist named :
Austin, Terry, Cole, Hazard, Oscaru, and Drogba.

After reading the note, Byomkesh Bakshi instantly asked the police to arrest the murderers.

Who are the murderers?

▢ Guess the name of the famous Physicist using the picture below

- gpuzzles.com

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SOCIAL SCIENCE

1.Prepare a project on 'Consumer's Awareness' including:

(a) consumers rights

(b) consumers duties and COPRA

2. Slogan writing on 'Jago grahak jago'

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ARTIFICIAL INTELLIGENCE

Activities # 1 and 2 are to be done on A4 sheets to be added in the portfolio.

Activities # 3 is to be done in practical file.

ACTIVITY # 1: AI TECHNOLOGIES:

Prepare an A4 presentation on the working of Snapchat and Instagram filters.

ACTIVITY#2: SELF DRIVING CARS

Find out about the technology behind self-driven cars and the companies working on the concept of self driving cars.

ACTIVITY#3: PYTHON

Download and create your jupyter notebook.

- Complete all the 11 worksheets given in chapter 3.
- Complete all the programs given from page 205 – 211 of the book.

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