Bal Bharati
PUBLIC SCHOOL
Pitampura

HOLIDAY HOMEWORK
CLASS IX-2022-23

Family Time!

Here comes your Vacation!

Let's make it more interesting and meaningful...

It's time for you to unravel something that holds your attention...

It's essential to invest your energy into maintaining a good relationship...

Suggested bucket list for you:-

1. <u>Ditch your Gadgets :</u>- Set limits on screen time not just for yourself but for the entire family. Establish a household rule that says gadgets need to be shut off at certain times.

2. <u>Eat Dinner Together</u>:- Eat at least one meal with your family.

3. <u>Remain Active</u>- With your parents, go for a walk, cook a meal, join a yoga session, visit a place of worship once in a week and do meditation.

4. <u>A Project Together</u>- The project could be a simple one, you can read a book within a stipulated time and write a book review.

> **Benjamin Franklin rightly said**
>
> **"Tell me and I forget**
>
> **Teach me and I remember**
>
> **Involve me and I learn".**

Points to Ponder: –

- Pick up your own plates after every meal.

- Use the three magical words – Please, Sorry and Thank You.

- Read the Newspaper daily. Look for a piece of positive news and express it in your own words under the heading 'Did I Know it?' 🧐

- Help the needy. With parental guidance, clean your cupboard. Discard the clothes that you don't need anymore. Get them washed and distribute them to the needy.

- Play **SUDOKO**, solve **CROSSWORDS.**

General Guidelines for the Holiday Homework Project

1. Students are required to create a **Flipbook** for the Holiday Homework. (How to create a Flipbook - https://www.youtube.com/watch?v=6NUAMSHQtCc)

2. Make a proper index of the content page and picture gallery along with the serial number.

3. The project can be handwritten/a PDF/a PPT – which must be converted into a **digital Flipbook.**

4. **Cover page** should be made aesthetically.

• Should be creative indicating the name of the student along with the class, section, and session (2022-23).

5. All the pictures downloaded from the internet, must indicate the address of the website.

• You may make a collage of photographs to demonstrate a particular point.

• You may use newspaper clippings.

5. **Bibliography**- indicating address of the website, books, journals etc. referred to.

7. Attach these pages at the end of the file before the last page.

8. The last page must be a **Certificate Page** certifying that the entire work has been done by the child himself /herself.

Bal Bharati PUBLIC SCHOOL Pitampura

CLASS IX (2022-23)

Holiday Homework

Theme – My Financial Career

Guidelines:

- Holiday Homework has to be submitted on weekly basis.

- Every Monday, subject based assignment/s will be uploaded on MS TEAMS. Click on the link to follow the steps to upload your homework.
  https://drive.google.com/drive/folders/11cyfl5zb9a2ltoOdrFU-jcHKmNexuncl

- Students should complete the assigned task and upload it on Friday of the same week.

- One English and one Maths practice worksheet will also be uploaded every Monday, which
  should also be attempted and submitted on Friday.

- All the compulsory projects like SEWA Activity (PPT Presentation) and Disaster Management Project (Social Science) must be attempted and uploaded

Assessment Criteria

SEWA Activity - 3 marks

Compulsory Project/Assignments- 3 marks

Presentation (Aesthetics /Creativity)- 2 marks

Research- 2 marks

SEWA ACTIVITY (Compulsory Activity)

Create a PPT Presentation on 'Conservation of Trees'.

Lend a Hand to save the Planet- Set up a PHOTO WALL and paste pictures displaying your concern for the environment. Click pictures while-

- Building a nest
- Planting a sapling
- Maintaining a rooftop garden
- Consciously saving various energy resources

  Please include the Photo Wall in your PPT Presentation. (SEWA Activity)

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Week 1: - 30 May 2022 -3 June 2022

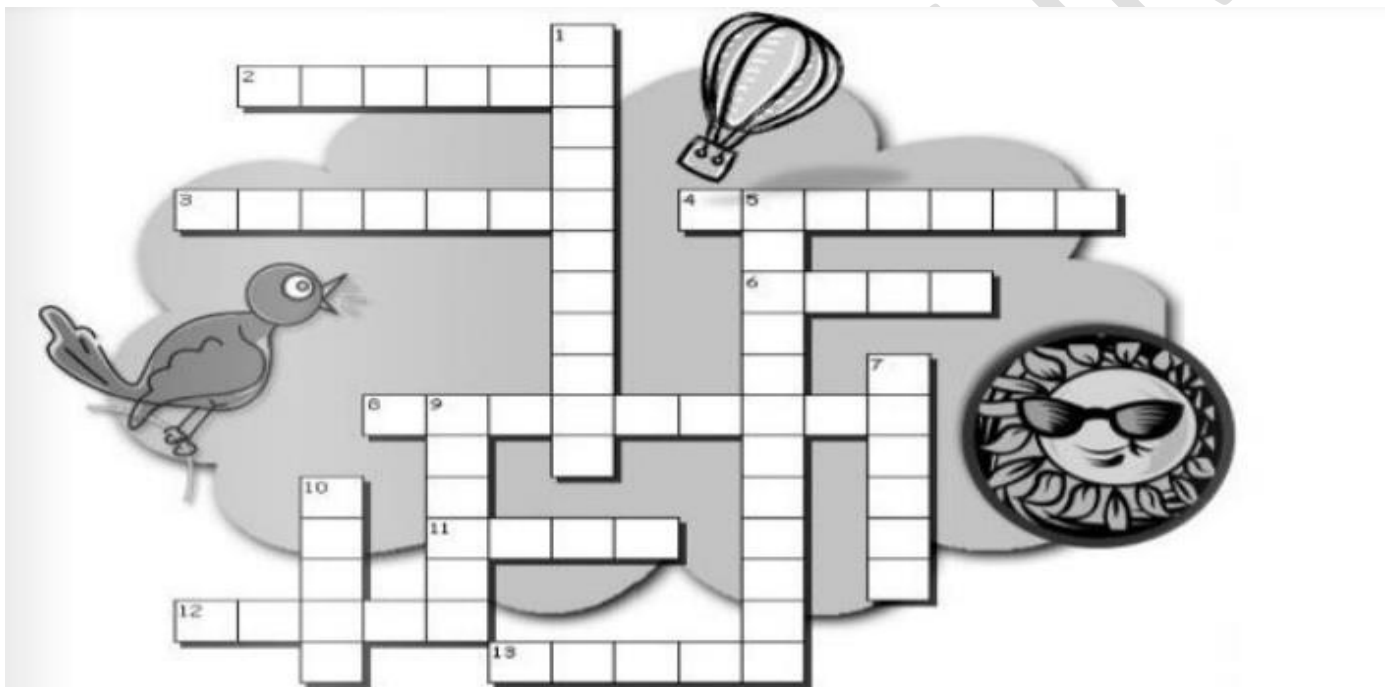| Subject	Assignment
Science	• <u>Roll no. 1-15</u> Create a collage of ' How you see yourself' in the next 10 years and reflect on the steps to be taken to achieve the financial future you would want. Word limit - 100-150 words. • <u>Roll no 16-30</u> <u>Exploring Entrepreneurship:</u> Think of starting your own business- Develop an idea and prepare a plan to create and sell your product. Think of a suitable name too. Word limit- 100-150 words. • <u>Roll no. 31-45</u> Use a tax deposit box where every member of the family puts a small amount as family tax (for every week). This amount will come from a family member's income or allowance or gift. Provide 5 options and a plan on how to use this money. For example: this money can be used to plan any family trip. Word limit – 100-150 words. • <u>Roll no. 46-55</u> There's an overwhelming number of investment products available in the market. For every parent, saving for their child's education is a top priority. Research and discuss with your parents, the pros and cons of the most common investment options like FD, Mutual funds, insurance, or stocks which parents choose to fund their child's education. Word limit- 100-150 words.

PRACTICE WORKSHEETS

Week 1: – 30 May 2022 –3 June 2022

ENGLISH

ACTIVITY 1

Across

2. The AQI color that represents very unhealthy air.
3. Too many cars on the road makes _____ very slow.
4. Don't ride in the car alone, _____ instead.
6. Walk or _____ the bus or your bike to school instead of going by car.
8. _____ are one of the main pollutants that makes smog.
11. Don't _____ in the drive-thru line, turn off your car instead.
12. The AQI color that represents very clean air.
13. _____ air is better than dirty air.

Down

1. When people work from home instead of drive to the office.
5. _____ _____ harms people and the environment.
7. Air pollution can make it difficult to breathe if you have _____.
9. Limit your outdoor activities on Air Quality _____ Days.
10. Save _____ by riding the bus.

ACTIVITY 2

Write a short paragraph on 'Man's Greed is Endangering Many Species'

(Hints — Urbanisation- Environmental degradation – deforestation-effect on birds and animals - climate change- hunting /poaching-enforcement of laws- suggestions)

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MATHEMATICS

An identity is an equality which is true for every value of the variable, but an equation is true for only some of the values of the variables.

Some algebraic identities you have studied in previous class are:

- $(x + y)^2 = x^2 + 2xy + y^2$

Example

Solve $(S + 7)^2$ by using suitable identities

Solution : $(S + 7)^2 = (S + 7)(S + 7)$; by the algebraic identity $(x + y)^2 = x^2 + y^2 + 2xy$

$$= S^2 + 7^2 + 2 \times S \times (7) = S^2 + 49 + 14S$$

- $(x - y)^2 = x^2 - 2xy + y^2$

Solve $(t - \frac{2}{3})^2$ by using suitable identities

Solution : $(t - \frac{2}{3})^2 = (t - \frac{2}{3})(t - \frac{2}{3})$; by the algebraic identity $(x - y)^2 = x^2 - 2xy + y^2$

$$= t^2 - 2 \times t \times (\frac{2}{3}) + (\frac{2}{3})^2 = t^2 - \frac{4}{3}t + \frac{4}{9}$$

- $x^2 - y^2 = (x + y)(x - y)$

Solve $9x^2 - 16y^2$ by using suitable identities

Solution : $9x^2 - 16y^2 = (3x)^2 - (4y)^2 = (3x - 4y)(3x + 4y)$

Expand each of the following, *using suitable identities:*

i) $(2x - y)^2$

ii) $(3x + 5)^2$

iii) $(x - \frac{1}{3})^2$

iv) $(4x + 5)(4x - 5)$

v) $(2x + 3)(2x - 3)$

Factorise the following using appropriate identities:

i) $9x^2 + 6xy + y^2$

ii) $4y^2 - 4y + 1$

iii) $x^2 - (\frac{y}{10})^2$

iv) $25 + 10x + x^2$

v) $4x^2 - y^2$