ENGLISH
Your holiday homework this year is a fun mix of all the aspects of the language. It has been designed to ensure that you enjoy and learn at the same time.

1. Read the famous book ‘Little Women’ by Louisa M. Alcott
   - Write a short summary of the story (75 words) and name the main characters.
   - Choose 10 interesting adjectives and 10 adverbs from the book and find their dictionary meanings.
   - Find one synonym and one antonym for all the 20 words.
   - Make interesting sentences using any 10 words.
   - Present your work creatively.

Remember, you will have an FA based on the story and the incidents, so ensure that you read the entire text.

2. Make a poster on any of the following topics:
   a) Donate blood
   b) Keep the earth green
   c) Save water
   d) Save girl child
   e) Stop violence against women
   Use a thick A4 size sheet and be as creative as you can.

3. Make a beautiful bookmark for your Literature reader. Decorate it and write a famous quotation by a well know poet or author.

4. Practice your grammar skills throughout the holidays. Use some or all of the following websites:
   - http://www.bbc.co.uk/bitesize/ks2/english/
   - http://www.testdesigner.com/questions/Grammar/Grade_8

MATHS
1) Discovery learning takes place in problem solving situations where the learner draws on his own experience and prior knowledge. It is a method of instruction through which students interact with their environment by exploring and manipulating objects or performing experiments. We have identified few concepts which the students are expected to explore and develop a power point presentation depicting their understanding about the concept. Refer to NCERT Mathematics Book of Class VIII.

The presentation has to be emailed to the school at the school email id skool.saket.del@apj.edu with subject Mathematics Holiday Homework of Class 8 by Name of the Student.
Roll No. 1-5

The students will explore the properties of the different operations on rational numbers. Based on their study the students are expected to observe and analyse the following:

“If a property for a particular operation holds for rational numbers, will it also hold for integers and whole numbers?

Roll No. 6-10

The students will study different types of polygons and show the classification of polygons on the basis of -

(a) Number of sides or vertices
(b) Regular or irregular polygons
(c) Convex and concave polygons

Roll No. 11-15

Explore the properties of interior and exterior angles of different types of polygons. Verify the property related to sum of the measures of exterior angles and interior angles of both convex polygon as well as concave polygon.

Roll No. 16-20

Study the different types of parallelograms and list the similarities and dissimilarities between different types of parallelograms. Find the properties of different types of parallelograms. Based on their observations, the students are expected to explore the following:

1. A square was defined as a rectangle with all sides equal. Can we define it as a rhombus with equal angles?
2. A mason has made a concrete slab. Which shapes should he use to make it rectangular?

Roll No. 21-25:

Explain the different ways in which data can be represented graphically and find the merits and demerits of each type of representation.

Roll No. 26-30:

Study square numbers and make a list of at least seven properties of square numbers. Based on the observation of square numbers, find out how many non square numbers are there between $10^2$ and $11^2$?
Roll No. 31-36:
The students will study different tests of divisibility of 2, 5, 10. Based on the study of divisibility, answer the following questions:

1. If the division \( N \div 5 \) leaves a remainder of 1, what might be the unit digit of \( N \)?
2. If the division \( N \div 2 \) leaves a remainder of 1, what might be the unit digit of \( N \)?
3. If a number is divisible by any number \( m \), then will it also be divisible by each of the factors of \( m \)?

Roll No. 36- 44:
The students will study different tests of divisibility of 3, 9, 11. Based on the study of divisibility, answer the following questions:

1. If \( 21y5 \) is a multiple of 9, where \( y \) is a digit, what is the value of \( y \)?
2. If \( 31z5 \) is a multiple of 3, where \( z \) is a digit, what might be the values of \( z \)?


III) Bring articles, amazing facts, riddles, cross-words, recent discoveries in the field of Mathematics for the school biannual Mathematics newsletter (minimum 2).

SOCIAL SCIENCE

HISTORY

Let’s have some fun in History and Civics. Your Holiday Home work this year is a little different from the usual work of making files etc. It provides each one of you an opportunity to display your research skills. Section A will highlight the different features of ‘The Indian Constitution’ and Section B will explore the various aspects of ‘The revolt of 1857’. Isn’t that interesting!

General Instructions:

1. The whole class will be divided into 7 groups.
2. Each group will make a power point presentation on the topic allotted to them.
3. Maximum number of slides is 10.
4. Colour, Font, Text, should be appropriately used. Animations, videos and pictures could also be used.

Reference: History Chapter - 4 of ‘Our Pasts’. Civics Chapter -1 The Indian Constitution. Besides this use information from other sources too. (Internet, encyclopedia, books from school library, etc.)
Section A

- **Group One - Roll No (1 to 9)**
  Making of the constitution-(Who made our constitution, composition of constituent assembly, key personalities, how was it made, when did it come into effect)

- **Group two - Roll No (10 to 18)**
  Federalism-(its meaning, why was it adopted, division of power between different levels of government, which government has more power and why?)

- **Group three - Roll No (19 to 27)**
  Parliamentary form of government-(definition, importance, how is the govt. formed in this system, how is it different from the presidential form of govt.)

- **Group Four - Roll No (28 to 36)**
  Separation of powers-(three organs of the government, their functions, necessity and importance of separation of powers)

- **Group Five – Roll No (37 to 44)**
  Fundamental Rights-(meaning, various Fundamental Rights with examples, and their importance for citizens)

Section B

**Group 1.** Adeeb Ahmed, Anish Talwar, Anjan Gupta, Anshul Nautiyal, Anubhuti, Bhasker Sharma (Leader)
Topic: **Causes of the Revolt of 1857**
- Political, Economic, Social-Religious, Military and Immediate Causes of the Revolt.

**Group 2.** Arpit Manekialia, (leader), Chaitanya Dixit, Chhainiya Lal, Disha Khattar, Hrijul Tandon, Ipsa Mishra, Irfan Khan.
Topic: **Nature of the Revolt of 1857**
- Mutiny or a Popular Rebellion, (Role of people)

**Group 3.** Ishaan Dingra, Ishita Jain, Ishita Kanthwal, Jahanvi Kathuria, K. Anshul (leader), Kamaksh Singh, Kartik Sharma
Topic: **Outbreak of the Revolt of 1857**
- From Meerut To Delhi (events in Meerut and Delhi)

**Group 4.** Kushboo Kohli, Parkhi Kataria, Lakshay Chaudhary, Manan Arora, Mayank Mehra (leader), Monaal Gaur
Topic: **Leaders of the revolt along with the areas of the revolt.**
- Delhi, Lucknow, Kanpur, Gwalior, Arrah etc Map showing the areas.

**Group 5.** Shubham Yadav, Neeraj Joshi, Nupur P, K. Faraj (leader), Priyanka Sharma, Rishab Gupta, Amogh Tandon
Topic: **Company suppresses the revolt - places Delhi, Lucknow etc**
- **Significance of the revolt** - (Rise of feelings of nationalism, leaders who inspired the people)
Group 6. Ritik Chanana, Sameeksha S, Sangya, Saraansh Bansal, Shivam Arora (leader), Shivansh Bhasin

Topic: Causes of the Failure of the Revolt of 1857.
Lack of unity, Lack of resources, Lack of national leaders, Revolt not widespread etc.

Group 7. Mritunjay B. (leader), Sukriti Nijhawan, Sushant Chaudhary, Tanmay, Tanvi Vohra, Yuvraj Saraswat

Topic: Aftermath of the Revolt
Important Changes Introduced by the British e.g. Transfer of power to the British Crown, Reorganization of the army etc.

SCIENCE

1. Today life without plastics cannot be imagined. Be it home or outside, plastic is everywhere. Collect information on the following plastics (Teflon, Bakelite, PVC, Melamine). Write about their methods of preparation, monomer, properties and uses. Also paste pictures of any 5 things each made from these plastics.

2. Find out the locations of the deposits of Iron, Aluminum, Zinc, Copper and Gold in India. Mark these in an outline map of India. In which form are the deposits found? Also write the uses of these metals.

3. The Science department is planning to start a Science newsletter shortly. For making this happen bring articles, amazing facts, riddles, cross-words, recent discoveries in the field of Science (minimum 2).

4. Do the following activity and record your observation with reasons.
   - Remove the shell from a hard boiled egg.
   - Take an empty glass bottle with a mouth large enough through which an egg can be squeezed through without squashing it.
   - Place the boiled egg with its small end down on the mouth of bottle.
   - Does the egg move? Remove the egg.
   - Burn the strips of paper and drop these burning papers quickly into the bottle.
   - Quickly place the boiled egg once again on the mouth of the bottle.
   - What happen to the egg?
5. Bacterial Reproduction

Bacteria can reproduce very quickly. If conditions are correct bacteria can divide every 20 minutes. This means a small number of bacteria can multiply very quickly.

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Number of bacteria</th>
</tr>
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<tbody>
<tr>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>20</td>
<td></td>
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<tr>
<td>40</td>
<td></td>
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<tr>
<td>60</td>
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<tr>
<td>80</td>
<td></td>
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<tr>
<td>100</td>
<td></td>
</tr>
<tr>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

If 100 bacteria get into your body and reproduce every 20 minutes how many will there be in 2 hours?

FRENCH

✓ Project

Make a chart on famous personalities in France. You can choose from the list below or any other French personality of your choice.

**Topics**

- Art: Claude Monet
- History: Jeanne d’Arc/Napoleon Bonaparte
- Gustave Eiffel
- Zinedine Zidane
- Nicolas Sarkozy
- Charles de Galle
- Emma Watson
- Joan of Arc

**Roll No.**

- 1-10
- 11-20
- 21-30
- 31-40
- 41-50

**The chart should provide answers to the following questions.**

- What is this person famous for?
- What is remarkable about what they did?
- What difficulties or opposition did they face?
- What impact did have on the world at the time?
- Why should we remember them today?

**Instructions**

1. Draw and/or cut out pictures
2. Take the help from newspapers/magazines/internet
3. Add the latest information about the individual celebrity.
Make at least two sentences each with the following words:

COMPUTER

Design a website in Frontpage on any one of the following topics:-
1. India-Fight against corruption
2. Delhi Metro
3. IPL 2013

The website should consist of at least 6 pages with good formatting, aesthetics and presentation. Website should be submitted in the form of html file. The website has to be emailed to the school at the school email id skool.saket.del@apj.edu with subject Computer Holiday Homework of Class 8 by 'Name of the Student'.

हिंदी

किसी एक रचनाकार (महादेवी वर्मा, सुभिम्ब्रान्दन पन्त, सूर्यकांत त्रिपाठी निराला, जयशंकर प्रसाद) को आधार बनाकर एक साहित्यिक समाचार-पत्र बनाएं -
इस पत्र में निम्नलिखित सूचनाओं को लिखिए --
• रचनाकार का नाम व चितव
• जीवन काल (जन्म-मृत्यु)
• प्रमुख रचनाएं -
BOOK CLUB

Reading helps you to foster empathy, morality, critical thinking, imaginations and creativity; it not only broaden your interests, spark your passions, but also inspire you to think and do great things. Joining a book club is one of the greatest ways to develop all of these wonderful qualities. Our school also has a Book Club. Any student can be the member of this book club. Every month we choose a book to read and given a month time to read it. Then we have a discussion on the book in which anything related to the book, content or an interesting part of the book is read out.

The core idea of a book club is to come to express, share. As people, we can learn things independently, come up with great ideas alone, or enjoy books by ourselves. But a special feeling arises when we come together to share these experiences. It is human nature to want someone to hear what you have to say. It's empowering! It's fun! And it's what the book club is all about.

During this summer vacation the book to be read is “Harry Potter and the Philosopher’s Stone by J.K. Rowling”.

- प्राप्त पुरस्कारों के नाम
- उनकी कोई एक कविता

नोट - कार्य का मूल्यांकन मौलिकता और विषयवस्तु के आधार पर किया जाएगा।