English:

1. Write a short biography on LEO TOLSTOY (150-200 words)
2. Write a speech on the topic. "Which generation is better-the millennials or the older generation." (200 words)
3. Write 15 new idioms and make sentences with it.

Hindi:

1. ''मनुष्य हो या पशु–पक्षी, स्वतंत्रता सबको प्रिय है।'' इस बात को ध्यान में रखते हुए स्वतंत्रता के महत्व पर एक अनुच्छेद लिखें एवं भारत के किन्हीं तीन स्वतंत्रता सेनानियों के जीवन एवं उपलब्धियों पर एक आकर्षक परियोजना कार्य तैयार करें।

2. निबंध लिखें – नारी शक्ति एवं प्रगतिशील भारत

3. ग्रीष्मावकाश कैसे बिताया, यह बताते हुए अपने मित्र को एक पत्र लिखें।

   नोट – सभी कार्य बाँधने वाली फाइल में करना है।

Maths:

1. Which of the following triplets are Pythagorean ?
   a) 3 ,4 ,5   b) 10 ,24 ,26   c) 6 ,7 ,8
2. Write a Pythagorean triplet if one number is 14 .
3. Find the square root of following correct up to 3 places of decimal
   a) 7   b) 4.5   c) 367 2/7
4. Find the square root of following using long division method :
   a) 1471369   b) 108241   c) 57121
5. Find the least square number which is exactly divisible by each of the numbers 6 ,9 , 15 and 20.
6. Find the least number which must be added 8400 to obtain a perfect squre.
   Find this perfect square and its square root.
7. The area of a square field is 60025 sq.m.Aman cycles along its boundary
   At 18 Km/hr. In how much time will he return to the starting point.
8. Find the cube root of following :
   a) 9261   b) 3375   c) 1728
9. Find the cube root of following through estimation :
   a) 15625   b) 91125
10. Three numbers are in the ratio 2:3:4. The sum of their cubes is 33957
    Find the numbers.
11. Take a square sheet of area 132.25 cm^2 Find the side of the sheet and
    Create a beautiful greeting card. Using tessellations with a mathematical
    Quotation. (Project)

12. Create a life history of any Indian mathematician and his / her contribution
    In the field of Mathematics. (Project)

Physics:

1.Write an activity to demonstrate the existence of ATMOSPHERIC PRESSURE around you .

2.What are the different factors due to which atmospheric pressure decreases with altitude .

3.Derive the relation for liquid pressure : P = h d g , where h=depth ,d=density g= acc. Due to gravity.

4. a) Calculate the height of a water column which will exert on its base the same pressure as the 70 cm

Column of mercury . Density of mercury is 13.6 g/cm^3 .

b) Will the height of the water column in part (a) change if the cross section of the water column made wider ?

5.Define the term THRUST. State its S.I. unit.

6.Define one pascal (Pa) , the S.I. unit of pressure .

Chemistry:

1) write about Hydrogen - as an alternative source of energy in not more than hundred words.

2) Make a report on electricity consumption in your house. Suggest some ways that can help to reduce the consumption.

BIOLOGY

1. Paste the seeds of a. Rabi crops (3).   b. Kharif crops (3)
    Write about each of them (two sentences related to their requirements, utility etc)
2. Site the differences between manure and fertilizer along with their advantages and disadvantages.
    (Note: above assignment to be done in a folder/file)

History /Civics:

A. Make a project on constituent assembly including the following important points--

1. Seal of the constituent assembly

2. History of the constituent assembly

3. Leadership and gallery

4 political group. Major Committees.

5. Meeting places and Composition.

6. Date and years of implementation of constitution.

B. List about 10 important constitutional amendments of Indian Constitution.

C. Visit a museum and study the sections of coins or vessels/

pot's of that time. What do you learn about the period to which they belong by looking at the   (a) designs,. (b) metals / minerals(c) craftsmanship.

Geography:

1. How, any one man made resources can be reused.
    i. (Hint: Paper, Plastic, Iron and steel)
2. Multiple uses of renewable resources.
    i. (Hint: Sugarcane, Leather, Jute, Silk fibre)

Sanskrit:

1-शब्द रूप लिखें ....देव , फल, कवि मति ,वारि नदी ,मातृ ,   पितृ , लता , मुनि ,पति सखि, अस्मद्, युस्मद् ,तत् तीनों लिंगों में ,एतत् तीनों लिंगों में , किम् तीनों लिंगों में |

2.धातु रूप पॉच लकारों में लिखें ....पठ् , भू , अस् , स्था , पा ,दृश् , गम् , सेव , लभ् , ।

3 . सुरभिः   ..पाठ 1से 3 तक याद करें।

4. संस्कृत में 1   से   100 तक संख्या   लिखें।