**Holiday Homework Grade 9th**

**English**

Bravia: do comprehension worksheets 1-10 on book itself.

Holidays package: Do worksheet 11-15 on book itself.

**History/Civics**

Select any one of the following non-democratic country in the world at present and write about their Political, Social and Economic condition. (Bhutan, Vietnam, Saudi Arabia, Nepal, Jordan , UAE, Malaysia, China, North Korea, Egypt, Libya, Sudan, Congo, Afghanistan, Cuba, Guantanamo Bay )

Do activity sheet and paste in your notebook.

Napoleon was the child of the Revolution. Discuss in context of the French Revolution. Write Napoleon’s Memoirs.

**Geography**

1. Learn and write the states of India, their capitals and three districts of each state and show them on the political map of India.
2. Learn and write the names of the New Prime Minister of India, The Councils of Ministers and their departments and the names of your state Chief Minister and cabinets minister of Punjab.
3. Learn and write about the major physical divisions of India and show them on the physical map of India.
4. Learn and write important points of each chapter of Ist term.
5. Do thorough reading of all chapters of Social Studies which you have read in the class.
6. Any activity showing what is your contribution for your society and environment.

**Hindi**

* pSu -pizXoM myM BI sMvydnf hoqI hY k Ysy icZ sihq vxén k IijE[

**Chemistry**

1.Assignment- Do write 25 internal questions-answers of Ch-1(Matter in our surrounding ), Ch-2(Is matter around us pure) in which question 1 to 10 carry one marks. Question 11 to 25 carry 2 marks. There will be a science quiz after holidays.

2. Chart based on classification of matter.

**Physics**

Draw a graph between Scores and Overs in any Indian cricket match of World Cup 2019 for 20 Overs . Make sure that graph should represent

(a) Fall of Wickets

(b) Total Runs after every over

(c) Total Runs after each Ball

**Biology**

1. Learn all NCERT Question Answer of Chapter Cell and Tissue

2. Prepare one modal based on reuse of plastic

3. Prepare one chart showing Animal and Plant cell

**Punjabi**

1H iwks fto;/ Bkb ;pzXs ebki fsnko eo'.

2H ftd/PK ftZu ikDk wip{oh iK bkbu ftP/ s/ b/y fby e/ fbnkU.

3H nkgDh ouh j'Jh ejkDh iK eftsk 100 PpdK ftZu fby'.

**Computer**

Prepare a poster/collage for showing the role of ICT in personal life and at workplace.

CHART/Model on IPO Cycle Diagram and Logic diagram of computer.

**Math**

 Chapter 1, and Chapter 2

 NUMBER SYSTEM AND POLYNOMIALS

1. If x + y = 12 and xy = 32, Find the value of x2 + y2.

2.  If 3x + 2y = 12 and xy = 6, find the value of 9x2 + 4y2.

3.  Write the following cubes in the expanded form:       (i)   (3a + 4b)3       (ii)   (5p – 3q)3

4.  If x2 + 1/x2 = 27 ,find the values of each of the following:       (i)          (ii)   

5.  If  then evaluate x2+1/x2

6.  If a + b + c = 15 and a2 + b2 + c2 = 83, find the value of a3 + b3 + c3 – 3abc.

7.  Factorize:       (i)   6ab – b2 + 12ac – 2bc       (ii)   9(2a – b)2 – 4(2a – b) – 13

8.  If x3 + ax2 – bx + 10 is divisible by x2 – 3x + 2, find the values of a and b.

9.  Using factor theorem, factorize each of the following polynomials:

      (i)   x3 – 6x2 + 3x + 10       (ii)   2y3 – 5y2 – 19y + 42

10.  Which one is not a polynomial

      (a)   4x2 + 2x – 1 (b)    (c)   x3 – 1 (d)   y2 + 5y + 1

11.  Find the number of zeros of x2 + 4x + 2.

12.  Find the value of k, if (x – 1) is a factor of 4x3 + 3x2 – 4x + k.

13. Every whole number is a natural number write true or false.

14.  If  find the value of x2 + y2 + xy.

15.  If  find the value of x2 - y2.

16.  Determine rational numbers p and q if
       

17.  Simplify: 

18.  Simplify: 

19.  Show that: 

20.  If:  then find the value of qx2 – 2px + q.

21.  Show that: 

22.  If 2a = 3b = 6c then show that 

23. If x = 2 and x = 0 are zeroes of the polynomial 2x3- 5x2+ px + b, then find the value of p and b.

24. Simplify and factorise (a + b + c)2 - (a - b - c) 2+ 4b2 - 4c2.

25. If a + b + c=6 and ab + bc + ca = 11, find the value of a3 + b 3 + c 3 - 3abc.