Summer Holidays are a great time to learn new things. It is a time to have fun, create and invent.

General Instructions:-

1. Parents to ensure that the child does the work on his/ her own.
2. Do all the Holidays Homework in a separate notebook.
3. Make one scrap book of all subjects.
4. Encourage your child to converse in English.
5. Eat healthy food & drink plenty of water.
6. Father's day falls on 16th June. Make a card for your father and give it to him on Father's Day. Write few lines for him.
7. School will remain closed from *9th June 2019 to 9th July 2019* due to Summer vacations and reopens on *10th July, 2019 at Schedule time 7:40 a.m. to 2:05 p.m.*.
8. Wish you a happy healthy summer vacations.

Maths

1. Make a creative booklet which includes Tables (1-20), formulas of all chapters, divisibility rules (1to 30), identities with examples, squares and cubes of numbers (1 to 30), tricks and riddles (any three).
2. Write the definitions of all set of numbers with examples.
3. Do any 10 sums of each addition and subtraction of L.C.M. with different denominators
4. Revise the chapters 1,2,3,12,15
5. Do any 10-10 sums of DMAS and BODMAS rule.

Assignment:-

1. Find the value of $\dfrac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}} + \dfrac{\sqrt{5} + \sqrt{3}}{\sqrt{5} + \sqrt{3}}$

2. Find the value of a and b $\dfrac{5 + 2\sqrt{3}}{7 + 2\sqrt{3}} = a - b\sqrt{3}$

3. Prove that $\dfrac{1}{\sqrt{4} + \sqrt{5}} + \dfrac{1}{\sqrt{5} + \sqrt{6}} + \dfrac{1}{\sqrt{6} + \sqrt{7}} + \dfrac{1}{\sqrt{7} + \sqrt{8}} + \dfrac{1}{\sqrt{8} + \sqrt{9}} = 1$

4. If $x^2 + \dfrac{1}{x^2} = 7$, find the value of $x^3 + \dfrac{1}{x^3}$

5. Factorise:- a) $x^3 - 10x^2 - 53x - 42$ b) $x^3 - 6x^2 - 13x + 42$ c) $x^3 - 23x^2 + 142x - 120$

6. What must be subtracted from $x^3 - 6x^2 - 15x + 80$ so that the result is exactly divisible by $x^2 + x - 12$?

7. Evaluate :- a) $(999)^2$ b) $(99)^2 - (98)^2$ c) $(111)^2$

8. Expand :- a) $(5x - 7y - 2z)^2$ b) $(9x + 3y + 4z)^2$

9. Factorize :- a) $49a^2 + 70ab + 25b^2$ b) $\dfrac{25x^2}{4} - \dfrac{y^2}{9}$ c) $4x^2 + y^2 + z^2 - 4xy - 2yz + 4xz$

10. Simplify :- a) $(x+y+z)^2 - (x-y+z)^2$ b) $(x+2)^3 - (x-2)^3$ c) $(6a+4b)^3 - (6a-4b)^3$

11. If $2a + 3b = 12$, $ab = 20$ find $8a^3 + 27b^3$

12. Show that $(x-1)$ is factor of $p(x) = 3x^3 - x^2 - 3x + 1$ and hence factorise $p(x)$.

13. Plot the points (5,4), (0,0) and (5,0). Join the points and find the area of the figure obtained.

14. Plot the point P (1,3), Q (1,-1), R(4, -1) and S (7,3). Join these points. Name the figure. Find its area.

15. Plot the point J (-1, -1), E (2,-1) and R (2,2) find the coordinates of the fourth vertex K such that JERK is a rectangle.

Science

1. Revision of P.T. I Syllabus, Test will be on 10 July.
2. Write and learn all the three equations of motion
   - I. $v = u + at$
   - II. $s = ut + \dfrac{1}{2}at^2$
   - III. $2as = v^2 - u^2$

   1) How will you differentiate between prokaryotic and eukaryotic cell? (With labeled Diagram)
3. Solve the NCERT numerical of chapter – 8 (Motion)
4. Write three examples from your daily life in which distance and displacement takes place simultaneously.
5. Frame 10 extra questions of chapter – 8 (Motion.
6. Frame 10 objectives type questions from motion chapter.
7. Convert the following temperature into C.
   a) 300 k   b) 500 k   c) 673 k
8. Draw labeled diagrams of plant and animals cells.

Social Science

1. Project work and Disaster Management (Make a file on Disaster Management and write about different disasters, their consequences and management and add different diagrams, charts tables and case studies to make to project effective.
2. Map Work –
   a) On outline map of Frame locate and label Bordeaux. Nantes, Paris, Marseilles
   b) On physical map of India
      Locate Mountain ranges
   c) Frame one mark extra questions (10 questions) from the chapter (Ch2) Physical features of India
      Ch – 1 (History) (H -1   (GEO)

Ch – 1 (Economics) (H- 1 (Civics)

Art & Craft
1. Make craft things with best out of waste material.
2. Make a handmade carry bag
3. Make a paper envelop.

English
1. Solve all the assignment/exercises given below from evergreen practice paper:-

Section	Topic	No. of Exercises/Assignments
Reading	Comprehension	4
Writing	Diary Entry	4
	Short Story	4
	Editing	4
	Sentence Reordering	4
	Gap Filling	4
	Reported Speech	
Literature	Moments 1. The lost Child 2. Iswaran The Story Teller Beehive 1. The fun they had 2. The little Girl	Solve Short answer question (30-40)words

2. Pick up five action words (verbs) daily. Write their meanings in English and hindi and also use them in sentence.
3. Revise whole syllabus and enjoy your holidays.
4. Design the title cover of our Annual Newsletter. Best one will be picked.
5. Write your last year experience in creative way and also mention resolution taken by you.

Punjabi
1. 'ਪ੍ਰਦੇਸ ਨਾ ਤੂੰ ਤੇਰੀ ਬਾਬਲਾ' ਕਹਾਣੀ ਪੜ੍ਹ ਕੇ ਉਸਦੇ ਪ੍ਰਸ਼ਨ - ਉੱਤਰ ਯਾਦ ਕਰੋ।
2. 'ਮਹਾਤਮਾ ਬੁੱਧ ਦੀਆਂ ਸੂਖਮਤਾਈਆਂ' ਵਾਰਤਕ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨ - ਉੱਤਰ ਯਾਦ ਕਰੋ।
3. ਨਵੀਂ ਖੁੱਲ੍ਹੀ ਕਪੜਿਆਂ ਦੀ ਦੁਕਾਨ ਤੇ ਮਕਾਨ ਵੇਚਣ ਲਈ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ।
4. ਤੁਸੀਂ ਆਪਣੀਆਂ ਗਰਮੀਆਂ ਦੀਆਂ ਛੁੱਟੀਆਂ ਕਿਵੇਂ ਬਤੀਤ ਕੀਤੀਆਂ ਦੱਸੋ ?
5. ਭ੍ਰਿਸ਼ਟਾਚਾਰ ਵਿਸ਼ੇ ਤੇ ਲੇਖ ਲਿਖੋ।
6. ਕੋਈ ਦੋ ਚਿੱਤਰ ਲੈ ਕੇ ਉਹਨਾਂ ਦਾ ਵਰਣਨ ਕਰੋ।
7. ਪਹਾੜੀ ਸਥਾਨ ਦੀ ਯਾਤਰਾ ਸੰਬੰਧੀ ਆਪਣੇ ਅਨੁਭਵਾਂ ਬਾਰੇ ਲੇਖ ਲਿਖੋ।

Computer
1. Read Unit – 3,4 and solve Book exercise.
2. Revise P.T- I syllabus
3. Make a Project file of following.
   A) Unit – II Fundamental of Computer
      ❖ Role of computers in different fields.
      ❖ Parts of computer
      ❖ Basic organization of computer
      ❖ Elements of Windows 7
      ❖ Introduction of WWW
   B) Unit – III Mastering Typing
      ❖ Various Keys of the Keyboard
      ❖ Touch Typing
   C) Unit – IV Word Processing (BASIC)
      ❖ Components of document window
      ❖ Formatting Text
      ❖ Spell check
      ❖ Bulleted and Numbered Lists
      ❖ Aligning data
   Note :- All the diagrams will be drawn not pasted.

PHYSICAL EDUCATION
1. Draw an Athletic track (on two pages)
2. Write & draw two jumping events – Long Jump, Triple Jump (Each event on two pages)
3. Write & draw two throwing events – Shotput, Discus throw (Each event on two pages)
4. Write & draw two games from giving the option (Each game on two pages)
5. Write 10 yoga Asana with pictures (Each Asana only one page)

Happy Summer Vacations!