



**SGS DAV CENTENARY PUBLIC SCHOOL**  
**15 HMH Tibbi Road Hanumangarh town (Raj.) -335513**  
**Holiday Homework (Summer 2019)**

Class : IX

Longer days and shorter Nights  
 Dark shades & brighter lights  
 Favorite music and best friends  
 Keep away pencils keep away pens.

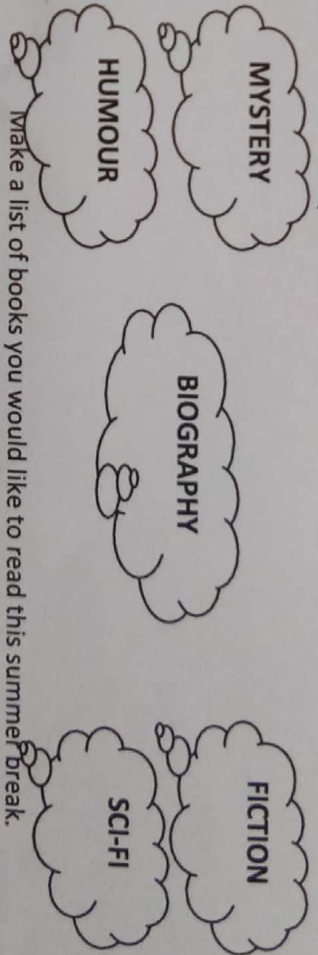
Make these days the time of your life  
 And make the nights just as right  
 This time only comes once a year  
 So live it up without inhibition and fear

**This summer break try and make a difference**

- **Appreciate nature** - Go for long walks in a park or garden with your family and friends. Adopt/grow a plant.
  - **Unravel the artist in you** - Create a new story, try a new recipe with your mom, learn a new song, play a new instrument.
  - **Good manners is the key** - Respect your parents, grandparents and elders. Use three magical words (Sorry, Please and Thank you) often. A little more courtesy goes a long way.
  - **Stay Fit, stay healthy** - Play your favorite game/sport regularly. Develop in yourself the spirit of sportsmanship & sense of healthy competition.
  - **Tete a Tete** - Go for a long walks/drives with your family and friends learn from their experiences. They are a living story book.
  - **Learn about our heritage** - Find some time to visit museum and monuments. Read about them. Learn new things related to your country.
  - **Save nature** - Contribute to save our precious environment. Minimize the wastage of resources like water fuel and electricity.
- Must do:-**
- Eat healthy food and drink lots of water and juices.
  - Read every day. Watch less of TV.
  - Revise the concept taught.
  - Enjoy the summer vacation with your ward.

**The Ultimate Reading List**

A man is known by the book he reads...



- Make a list of books you would like to read this summer break.
- No matter how busy you are, find time for reading.
- Travel with your book.
- Seek help from others.
- Learn new things and virtues from it.

**Books I read in MAY**

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**Books I read in June**

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- Suggested series of story books for reading:-
1. Harry Potter
  2. Alchemist (By Paulo Coelho)
  3. You can Win (By Shiv Kherra)
  4. Books by Ruskin Bond

**English: -**

Prepare Chapter: - 1 Beehive ---- The Fun They Had

Moments--- The Lost Child

The Adventures of Toto

Do practice of "Tenses and Active Passive".

Read English News paper Daily

**Science: -**

Biology: - Read and prepare Ch. 5 and topic plant tissue from Ch. Tissue with suitable diagrams.

Physics: - Prepare Ch. 8 from NCERT, Read Ch. 9 from NCERT

Chemistry: - prepare Ch. 1 from NCERT

**Social Science: -**

Preparing part: - Geo. Ch. 1, 2

Economics Ch. 1, 2

Pol. Science Ch. 2

Reading part: - History Ch. 1 from NCERT

**Mathematics: -**

Do worksheet

**हिंदी**

1. पाठ 1, 2, 9 (क्षितिज) से पढ़ो और याद करो।

2. पाठ 2 (कृतिका) पढ़ो और याद करो।

3. दैनिक समाचार-पत्र का वाचन करो।

4. सुलेख लिखो (पाँच पेज)

5. प्रसिद्ध लेखक 'प्रेमचंद' की कोई दो कहानियाँ पढ़ो और उनकी समीक्षा करो।

**Information Technology**

Prepare Ch. 3 & 4 from information technology book



- Rationalize the denominator  $\frac{15}{2\sqrt{3}+1}$ .
  - Represent  $\sqrt{5.6}$  on the number line.
  - Simplify  $\frac{1}{5+2\sqrt{3}} + \frac{1}{5-2\sqrt{3}}$
  - Find the value of  $\frac{1}{4\sqrt{5}}$  to three places of decimals.
  - $x = 3\sqrt{6} - 5$ , find  $x + \frac{1}{x}$
  - Simplify  $\frac{32^{\frac{5}{2}}}{16^{\frac{4}{3}}}$
  - Find i)  $729^{\frac{1}{2}}$  ii)  $343^{\frac{1}{3}}$
- Find  $g(-1)$ ,  $g(1)$  and  $g(\frac{1}{2})$  for each of the following polynomials
    - $g(x) = x^3 - 3x^2 - 4x + 12$
    - $x^3 - x^2 - 8x + 2$
  - Find the value of the polynomial  $x^4 + 4x^3 + 3x^2 - 4x - 4$  at
    - $x = 1$
    - $x = -2$
    - $x = 0$
    - $x = -\frac{1}{4}$
  - Find the zero of the polynomial in each of the following.
    - $p(x) = 2x + 5$
    - $g(p) = 5p - 8$
    - $f(x) = 6x - 5$
  - Divide  $p(x)$  by  $g(x)$ , where  $p(x) = 2x + 5x^2 - 18$  and  $g(x) = x + 2$
  - Find the remainder when  $-7x + 2x^3 - 2x^2$  is divided by  $x+1$ .
  - Use the Factor Theorem to determine whether  $g(x)$  is a factor of  $p(x)$ 
 $p(x) = 3x^4 + 7x^3 - 13x^2 - 35x - 10$      $g(x) = x + 2$
  - What is the remainder when  $p(x)$  is divided by  $(x-1)$ ? What is  $p(1)$ ?
  $p(x) = 2x^4 - x^3 - x^2 + 3x + 8$ .
  - Factorize,  $-x^2 + 5x - 6$
  - Factorize  $n^4 + 9m^4 + 6n^2m^2$
  - Solve using standard identity.
  $1004 \times 997$
  - Plot the points A(2, 5), B(-2, 6), C(0, -3), D(-1, -2) and E(3, -2) on the Cartesian plane.
  - Plot the points (2,3), (-2, 3), (-2, -3) and (2, -3) on a graph sheet. Join these points. Name the figure obtained.
  - Plot the coordinates of the points
    - whose ordinate is -5 and which lies on y-axis.
    - which lies on x-axis and y-axis both
    - whose abscissa is 3 and which lies on x-axis in Cartesian plane.