THE SD VIDYA SCHOOL, NOIDA

HOLIDAY HOMEWORK 2019-20

CLASS—IX

English

1. Read any one ofthe books given in the list below and write a book review for the same. Make sure you include your personal response to the review. Also make a creative book cover and put the review in it.
    a. Animal Farm by George Orwell
    b. The Immortals of Meluha by Amish Tripathi
    c. Three Men in a Boat by Jerome K. Jerome
    d. Charlie and the Chocolate Factory by Roald Dahl
    e. Malgudi days by R. K. Narayanan

2. Collect any five news items on the given issues. Paste these news items on coloured A4 sheets .Then write an article on the same issue.
   The given roll numbers will work on the following topics.
    a. Environmental Issues –air pollution, water pollution deforestation (roll no. 1-10)
    b. Technological Developments -medical technology , electronic technology (roll no. 11-20)
    c. Women Centric Issues- women education, dowry system (roll no. 21 & above)

    - Make a project file which will include your book cover, book review and article.

3. Revise the syllabus for periodic tests. The Fun they Had, The Sound of Music (Evelyn Glennie), The Little Girl, The Road not Taken, The Wind.

SOCIAL SCIENCE

Students have to submit a project on any one of the following topics on Disaster Management.

1. Natural disasters
    a. Earthquakes, floods and droughts – Elements at risk, causes, main mitigation strategies.
2. Manmade disasters
    a. Fire accidents – causes, safety measures
    b. Road, Rail and Air traffic accidents. Causes, effects, Dos and Don’ts.

Guidelines for the project:

1. Use A4 size sheets.
2. Use maps, diagrams newspaper clippings.
    - Use hard bound file or get your project spiral bound.
    - Revise the syllabus for Periodic Test.

Science

Prepare a power point presentation/ project report on the topic given below on A 4 size ruled coloured sheets.

Topic	Parameters	Roll No.
Ten Indian Scientists	Invention, contribution towards science.	1-9
Science in daily life	Applications	10-18
New inventions in science	Principles and their uses.	19-27

- Revise the syllabus for Periodic Test.

Sanskrit

क) अध्याय प्रथम से षष्ठ के शब्दार्थों से एक शब्द कोश का निर्माण करें तथा हस्त निर्मित सञ्चिका (कापी) बनाए ।

ख) विद्या,सत्संगति,नीति पर आधारित चार श्लोक अर्थ सहित लिखकर एक टाँगने वाला चार्ट बनाईए ।

ग) अकारान्त,इकारान्त,उकारान्त,ऋकारान्त पुल्लिंग आकारान्त ईकारान्त ऋकारान्त इकारान्त स्त्रीलिंग शब्द रूपों को लिखकर याद कीजिए ।

घ) उपपद विभक्तियों को लिखकर प्रत्येक के दो-दो वाक्य लिखें ।

ङ) पा,दा,स्था,गम,गै(गाय्),नम,अस्,कृ धातूओं के पाँचों लकारों में रूप लिखिए ।

Hindi

1. किसी पत्रिका से अपनी मन पसंद दोकहानियाँ अपने शब्दों में पुनः लिखिए ।
2. आप अपने माताजी - पिताजीके साथ किस तरह से वार्तालाप करते है किसी एक विषय को लेकर आप 'संवाद लेखन' डेढ़पृष्ट का लिखिए ।

Computers

Project:-

Make a project using MS-Word on the given topics and submit it on E-mail ID with your class, section, roll no. and name. E-mail ID is sdvssudeep@gmail.com

Roll no.	**Topic**
01-10	Advertisement (Cosmetics Item / Any Electronic Items)
10-20	Brochures
20-30	Posters (Save Environment, Clean & Green Delhi, Save Water, Do not use Plastic Bags, Save Electricity)

Mathematics

A. Project Work:

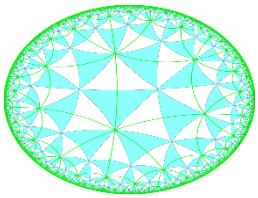
The following format will be followed for project:

- The project should be hand written on A-4 size sheets.
- The page wise format of the project presentation is as follows:
- Page 1- Write school name on top. Give the project a suitable name (write this in middle). At bottom write your name, class etc.
- Page 2- Explain what the project is about.
- Page 3- Define the AIM and OBJECTIVE of your project.
- Page 4- Give a brief write-up (about 60 words) on all the resources you used- book referred to, people you consult etc.

The project must contain:

- Your observation, tabulation, photographs etc.
- Analysis of the observations made.
- Conclusion that you draw from the project.
- NOTE: Total number of sheets in project should not exceed 10.

Choose any one topic:

S.N.		TOPIC
1		**Tricky Triangles:** Try to construct triangles using straws of various sizes. Record the lengths of the three sided for each triangle. Analyse your observation and infer when a triangle can be constructed.
2		**Symmetry Mystery:** Research about symmetry and its types- line symmetry, reflection symmetry, rotational symmetry etc. Find and mention where it is used in architecture, designing etc.
3		**Vedic Math:** Show how to illustrate the methods of calculation for addition, subtraction or multiplication using Vedic math. Compare arithmetic and Vedic math on the basis of simplicity, accuracy and speed.

B. Assignment

1. If 8x+1 = 64, what is the value of 32x+1?
2. Find the value of (30+20)/ 50
3. Find the degree of the following polynomial:
   (i) 15 (ii) x (iii) x+x2 (iv) y
4. Simplify: 131/5 / 131/3
5. Represent √6, √7 and √3.8 on the number line.
6. Check whether -2 and 2 are zeroes of the polynomial x+2.
7. Find the remainder when x3 – ax2 + 6x- a is divided by x-a using remainder theorem.
8. Use factor theorem to determine that x-3 is a factor of x3 – 4x2 + x +6
9. Insert 10 rational number between -3/11 and 8/11
10. Express each in p/q form:
    (i) 15.725 (ii) 8.0252525…. (iii) 0.555… (iv) 23.34666…
11. Find the value of k if x-3 is a factor of k2x3 – kx2 + 3kx – k
12. Find dimensions of a cuboid if its volume is 3x2 -12x
13. Evaluate (30)3 + (20)3 + (-50)3 using suitable identity.
14. Simplify: (i) (2√5 + 3√2)2 (ii) (√5 - 3√2)2
15. Rationalise the denominator and simplify:
    (i) (√3 - √2) / (√3 + √2) (ii) (1 + √2) / (3 - 2√2)
16. Write in expanded form: (i) (3x – 2y)3 (ii) (7a + 5b)3
17. If 2x + 3y = 13 and xy = 6, find the value of 8x3 + 27y3
18. Evaluate following using suitable identities: (i) (1002)3 (ii) (598)3
19. Find the following product:
    (i) (x + 3y)(x2 - 3xy + 9y2) (ii) (7a + 5b)(49a2 + 35ab + 25b2)
20. Find the following product:
    (i) (x + y + 2z)(x2 + y2 + 4z2 - xy – 2yz – 2zx)
    (ii) (2x - y + 3z)(4x2 + y2 + 9z2 +2 xy + 3yz – 6zx)
21. Factorise:
    (i) 4√3x2 + 5x - 2√3 (ii) p3 – 512q3
    (iii) 2√2a3 + 8b3 – 27c3 + 18abc (iv) a7 – ab6
22. Find the remainder when f(x) = x3 – 6x2 +2x – 4 is divided by g(x) = 1-3x
23. If x = 3 + √8, find x2 +(1 / x2)
24. If (x + 5) is a factor of x3 + 2x2 – 13x +10, find other factors.
25. Simplify:
    (i) 1/(1+√2)+ 1/(√2+√3)+ 1/(√3+√4)+ 1/(√4+√5) (ii) (4+√5)/(4-√5) + (4-√5)/(4+√5)