



Class: 10th

Subject: English

1) Read the newspaper daily and find out samples of the following and paste them in your English Grammar notebook:

- 5 reports
- 5 advertisements
- 5 posters

2) Writing skills (to be done in Grammar notebook):

- Write an Article on the topic "How Google controls the life of an average person!"
- Write a letter to the Editor of a national daily, drawing attention of the concerned authorities towards the long power cuts that your colony is facing, causing a lot of inconvenience to the students, the old and the sick.

3) Literature: (to be done in literature notebook)

A) Read the play "The Proposal". Write its summary

- Character sketch: Natalya, Lomov
- Theme

B) Read the following poems and write their summary and the poetic techniques used in the poem:

- Snowdrop
- My mother at sixty-six

Mathematics

1. Find the zeroes of the quadratic polynomial
 $x^2 + 7x = 12$, and verify the relationship between the zeroes and coefficients.
2. Find the zeroes of the polynomial $x^2 - 3$ and verify the relationship between the zeroes and coefficients.
3. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and coefficients:
 - a) $x^2 - 12x + 32$
 - b) $x^2 + 15x + 54$
 - c) $x^2 - 20x + 96$
 - d) $3x^2 - 17x + 24$
 - e) $6x^2 + 17x + 7$
 - f) $2x^2 - 9x - 45$
4. Find the roots of following quadratic equation by factorization:
 - a) $x^2 - 4qx + 4q^2 = 0$
 - b) $8x^2 - 22x - 21 = 0$
 - c) $2x^2 + \frac{5}{3}x - 2 = 0$
 - d) $21x^2 - 2x + \frac{1}{21} = 0$

- e) $15t^2 = 41t - 14$
5. Solve by the method of completing the square:
- $X^2 - 3x - 1 = 0$
 - $3x^2 - 5x - 1 = 0$
 - $x^2 - x - 20 = 0$
 - $2x^2 = 12 - 2x$
 - $3x^2 = -7x - 2$
6. Solve by using the quadratic formula
- $x^2 - 4x + 3 = 0$
 - $x^2 + 2x - 35 = 0$
 - $x^2 - 6x = 0$
 - $x^2 - 4x - 4 = 0$
 - $2x^2 + 5x + 2 = 0$
 - $2(x^2 + 1) = 7x$
 - $2 = 12x - 9x^2$
 - $3(y^2 + 1) = 7y$
7. Find the value of k for each of the following quadratic equation so that they have two equal roots:
- $2x^2 + kx + 3 = 0$
 - $kx(x - 2) + 6 = 0$
8. comment upon the nature of roots of the following quadratic equation:
- $5x^2 + 12x + 10 = 0$
 - $\frac{4}{3}x^2 - 2x + \frac{3}{4} = 0$
 - $2z^2 - 2\sqrt{6}z + 3 = 0$
9. Find the value of α such that the equation $(\alpha - 3)x^2 + 4(\alpha - 3)x + 4 = 0$
10. The product of two consecutive integers is 306, find the integers.
11. The product of ages of two sisters is 104. The difference between their ages is 5. Find their ages.
- 12.
- The sum of the squares of three consecutive positive integers is 50. Find the integers.
 - Find the two consecutive even numbers, the sum of whose squares is 64.
13. The sum of two natural numbers is 8, determine the number if the sum of their reciprocals is $\frac{8}{15}$.
14. Two numbers differ by 3 and their product is 270. Find the numbers.

15. Divide 29 into two parts so that the sum of the squares of the parts is 425.
16. A two digit number is such that the product of its digits is 35. When 18 is added to the number, the digits interchange their places, find the number.
17. Two numbers differ by 3 and their product is 504. Find the numbers.
18. The sum of the two numbers is 18 and the sum of their reciprocals is $\frac{1}{4}$. Find the numbers.
19. A two digit number is such that the product of its digits is 14. If 45 is added to the number, the digit interchange their places. Find the number.
20. The sum of square of consecutive natural numbers is 421. Find the numbers.

Project: Make a chart of properties of whole numbers, natural numbers, integers and Rational numbers.

Science

Physics

1. Complete all the chapter and worksheets that has been given in group and write down in a separate notebook. (9chapter-1)
2. Try to perform an experiment at home with a bulb, a magnet, water, copper wire, plastic glasses and salt. After performing, make a model on this Link given below

<https://youtu.be/XIf6s4QIVws>

Copy this link, paste it in YouTube window, watch the video and do the experiment.

3. Write about one invention of noble price winner physicist with diagram and theory in a file.
4. Write about Renewable energy (Solar energy, wind energy etc.), explain and make diagrams in a file.

Attention, students must not copy each others files.

Chemistry

1. Prepare Modern Periodic table or Long form of the periodic table on thermocole. First draw it on a glazed paper by using sketch pen of pink and grey colors and then paste on thermocole.
2. Make a free energy electric generator by using potato, salt and water.
3. Write three oxidation – reduction reactions on a white chart by using sketch pens of different colors.

4. Prepare colorful charts of 10-15 scientists and their inventions.
5. Learn two question/answers and then write on rough note books with parent's signatures and dates.

Biology

Read the chapter: Life processes and control and coordination thoroughly and revise the syllabus done in the month of April and May. (make a separate notebook to note the important points)

A) Explain the following (write 50-100 words for each):

1. Nutrition (autotrophic and heterotrophic)
2. Photosynthesis
3. Nutrition in Amoeba
4. Human alimentary canal
5. Process of digestion of food in man
6. Functions of Liver and Pancreas
7. What is Dentition? Give the dental formula.
8. What are digestive glands?
9. Define digestion? Why is it necessary?
10. Balanced diet
11. Absorption
12. Role of intestinal juices
13. Mechanism of breathing in human beings
14. Respiration
15. Blood circulation in man
16. Working of human heart
17. Transportation of materials in plants
18. Blood clotting
19. What is pace maker?
20. Root pressure
21. Translocation

22. Artificial Kidney
 23. Osmoregulation
 24. Structure of human urinated system
 25. Diffusion and osmosis
- B) Differentiate between the following (at least 50 words)

1. Auricles and ventricles
2. Artery and vein
3. Erythrocytes and lymphocytes
4. Xylem and phloem
5. Aerobic and anaerobic respiration
6. Autotrophic and heterotrophic
7. Herbivores and carnivores
8. Light reaction and dark reaction
9. Holozoic and saprophytic nutrition
10. Respiration and photosynthesis
11. Extracellular and intracellular digestion

Social studies

Project on Consumer Awareness (following are the points you have to write on)

- Who is consumer?
- Consumer exploitation
- Responsibility of consumers
- Consumer awareness
- Consumer movement
- Consumer protection act 1986
- Jago Grahak Jago programme

Project should be done in A4 size coloured sheets.

गीष्मकालीन अवकाश गृहकार्य

विषय : हिन्दी

वर्षा : दसवीं

★ पाठ-3 (जम्मू कश्मीर में हिन्दी), पाठ-4 (हमारा प्यारा भारत वर्ष),
★ पाठ-7 (पर्वत प्रदेश में पावस) का पठन करें और इसके प्रश्नोत्तर,
★ प्रसंग, आधारभूत और लघु प्रश्नोत्तर अपनी कार्य पुस्तक में करें।
★ प्रथम इकाई का सम्पूर्ण कार्य याद करें।

★ प्रतिदिन एक पृष्ठ सुनैरव अपनी कार्य पुस्तक पर करें।

★ प्रतिदिन हिन्दी का समाचार पत्र या हिन्दी की किसी पुस्तक का
★ पठन करें। (शब्दों के उच्चारण पर विशेष ध्यान दें)।

हिन्दी-बी (निबन्ध)

- | | |
|------------------------|-------------------|
| 1. मंहगाई की समस्या | 4. दीपावली |
| 2. मेरे जीवन का लक्ष्य | 5. दहेज प्रथा |
| 3. मेरे जीवन का लक्ष्य | 6. राष्ट्रीय पत्र |

पत्र/प्रार्थना पत्र: कसम का महत्त्व बताते हुए अपने छोटे भाई को पत्र लिखें।
कसमगति से बचने के लिए अपने छोटे भाई को पत्र लिखिए।

2. पुस्तकें मंगवाने के लिए पुस्तक विक्रेता को पत्र लिखें।
3. प्रभाव-पत्र लेने के लिए अपनी मुख्याध्यापिकाजी को प्रार्थना-पत्र लिखें।

पर्यावरण

1. 50 मुहावरों के अर्थ लिखकर वाक्य बनाइए।
2. 20 सन्धि, 20 सन्धि विच्छेद, 30 पर्यायवाची शब्द लिखें।

परियोजना कार्य

1. प्रतिदिन मानक देवनागरी वर्णमाला के क्रमानुसार सात वर्ण के पाँच-पाँच शब्दार्थ लिखते हुए हिन्दी शब्दकोष तैयार करें।
2. आत्मिकाल के निर्गुण काव्यधारा के संत कवि कबीरदास एक समाज सुधारक थे। उनके द्वारा रचित सारवी को पढ़ें और समाज की वास्तविकता से परिचित कराने वाली सारवी 15x20 आकार की शीट पर लिखकर, दीवार पर लगाने के लिए आकर्षक फ्रेम तैयार कीजिए।

नोट

1. लेखन पर विशेष ध्यान दें।
2. त्रुटियाँ न करें।