



BURARI PUBLIC SCHOOL

a venture with **UNIQUE**



NAME:.....

CLASS:.....

ROLL NO.:.....

BURARI PUBLIC SCHOOL

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SUMMER HOLIDAY HOMEWORK (2024-25)

Class X

Dear children,

- **You matter us most and we All Miss You!**
- **Stay safe**
- **Be kind to your family.**
- **Get creative**

Summer vacations are at our doorsteps. Holidays are a well deserved opportunity to relax and rewind by indulging in activities that are pleasurable at the same educative. You are going to enjoy your holidays. It's a sincere request to all to complete holiday projects and home assignment on time. Engage yourself whole heartedly as you will learn a lot through it. Practice your hobbies or inculcate new hobbies. Do a lot of reading it can be newspapers, magazines, books or novels. Watch English news daily in order to equip yourself with the information and facts to be used as content in the writing skills.

Summer Holiday Homework is an initiative on our part, to inculcate innovativeness.

Creativity and interest in the tasks assigned to our students. It will not only enable them to recapitulate what was taught but will also help them to connect themselves to the various learning processes. Kindly ensure that your child complete the assignment neatly.

General Instructions

- All the work should be hand-written.
- Original drawings/illustrations and creative use of material will be appreciated.
- Present your work on A4 size sheet and put it in an attractive folder with your name and class clearly written at the top.

English

Activity I- Based on **Chp-2, Nelson Mandela**, find the different social issues present in Haryana and Manipur.

Task: Write a script on any Social Issue.

- It should be divided into IV scenes and different characters (character count 4-5).
- Each scene should be written on different A4 sheet.

Where to do: A4 Sheet.

Parameters: Content, Presentation, Setting of a plot.

ActivityII:PORTFOLIO:

▪Prepare a Portfolio with the following (Prepare a file with A4 size sheets)

- Introduction
- My Strengths
- I need to improve on...
- My achievements
- I have participates in....
- The books I have read
- The books I wish to read

Activity III–Design your own Newspaper.

How to do: The Newspaper should have five sections.

- Facts and figures of English Language.
- Creative corner: Your classroom poetry or story.
- Quotes: By famous poets with their names
- Entertainment
- Games and Puzzles, based on Tenses, verbs, prepositions or conjunctions. (Anyone)

Activity IV-Research about a place you wish to visit and prepare a Travel Brochure describing the

- location
- way to reach there
- weather
- best time to visit

- hotels
- flora and fauna
- food
- suggested activities, culture etc. It should be handwritten. There should be 4-5 pages, where you may draw or paste some pictures associated with that place.

Writing Skills-

Make a poster portraying your thoughts and point of view on:

“ Love for freedom is the natural instinct of every living being”.

You are KishanPratap of M.S. Nagar Jaipur. You want to join some American University for higher studies. Write a letter to the Education Officer, American Foundation for Education, New Delhi for necessary information and guidance.

Worksheet

Q1. Solve the passage and answer the questions given below:

Everyone has a favorite attraction at an amusement park, and I am no different. However, unlike most people who seem to prefer roller coasters, my favorite ride is a little more gentle. Every time I go to Coney Island, Navy Pier, or the Santa Monica Pier, I absolutely have to ride the Ferris wheel. The Ferris Wheel is simple and yet also quite complex. That is, riding it is easy, but how it works is complicated. A series of carts are attached to a wheel, which is attached to a rim. That rim rotates vertically around an axis, and gravity keeps the carts upright. As simple as the ride seems, only advanced engineers can make safe and fun Ferris Wheels.

While the Ferris Wheel is not as thrilling as a rollercoaster, it is still very exciting. The fact of being high in the air makes it so much more entertaining than a lot of rides. I mean, how often do you hang from that high up in daily life. Nevertheless, I have to admit, I don't seek Ferris Wheels out because of their excitement. Rather, I find them very relaxing. At the top of the Ferris Wheel, you get beautiful sights of the park. You also get a sense of calm that you don't get in the hustle and bustle of the park below. Additionally, Ferris Wheels are also gorgeous to look at when they are lit up at night. In fact, the original Ferris Wheel was designed as much to be seen as to be ridden.

The first Ferris Wheel was made by and named after George Washington Gale Ferris, Jr. He designed it for the Chicago World's Fair in 1893. It was the tallest attraction there, standing 264 feet high. However, visitors to the fair were impressed by the size of the ride as well as the mechanics of it. In 1893, anything that was not turned by hand was considered a sight to see. And the wheel, which was a machine, was truly incredible to see.

Further, as one visitor put it, the wheel was amazing because it seemed to be missing support. That is, it did not look like it could stand on its own. And yet it did and even rotated!

Ferris Wheel technology has only improved since then. Most of today's Ferris Wheels are much larger than that first one. The largest in the world is the "Singapore Flyer," which stands slightly taller than twice what Ferris's did! Today, the Ferris Wheel is the most common amusement park ride. But that does not mean you should take them for granted. Instead, be thankful for Ferris' invention. The next time you're at an amusement park, don't just look up at the impressive wheel in the sky on your way to a newer attraction. Take it for a spin!

1. As used in paragraph 1, the word attraction most nearly means:

- i) Sense ii) park iii) ride iv) vision

2. It can be understood that Coney Island, Navy Pier, and the Santa Monica Pier are all examples of :

- i) Amusement parks ii) Ferris Wheels
- ii) Vacation spots iv) boat dock

3. As used in paragraph 2, which is the best antonym for complex?

- i) Impressive ii) beautiful iii) exciting iv) simple

4. What does the author like best about Ferris Wheels?

- i) The impressive engineering and beauty of them
- ii) The excitement and thrills they guarantee
- iii) The beautiful sights and relaxation they allow
- iv) The fact that most amusement parks have one

5. According to the passage, the Ferris Wheel was originally designed for

- i) Coney Island ii) the world's fair
- ii) Disneyworld iv) Singapore

6. This passage was most likely written to:

- i) Describe the author's favorite amusement park rides
- ii) Explain the original design of Ferris wheels and how they work today
- iii) Describe the history of Ferris wheels and why they are so popular
- iv) Explain the history of Ferris wheels and why the author likes them

7. Using information in the passage, the reader can understand that the tallest Ferris wheel in the world is :

- i) Under 250 feet tall
- ii) Between 250 and 500 feet tall
- iii) Between 500 and 750 feet tall
- iv) Over 750 feet tall

8. In paragraph 2, the narrator says, “As simple as the ride seems, only advanced engineers can make safe and fun Ferris wheels.” Can you think of any other machine that seem simple but actually is not?

9. In paragraph 3, the narrator says, “While the Ferris Wheel is not as thrilling as a rollercoaster, it is still very exciting.” Can you think of any other machine that is not “thrilling” but still “exciting”?

10. In the final section of the passage, we learn how Ferris Wheels “keep reaching higher and higher.” This seems to be a common trend among the developers of modern technology. What makes us want to continually strive to create something bigger and better?

11. Give a suitable title to the passage.

Q-2 Read the passage carefully and answer the questions that follow:

Sex ratio in Ghaziabad improved in past decade, but has fallen after 2020 Ghaziabad : The sex ratio in Ghaziabad has improved from 870 to 915 in the past decade, but has gone down in the last one year. According to figures sourced from the health department, the number of women for every 1,000 men in the district was 961 in 2020, but has reduced to 915 this year. The district’s sex ratio was a cause for concern 10 years ago. In 2011, Ghaziabad’s sex ratio was 870, which was lower than the state’s figures of 912.

The next year, it reduced further to 818. However, the gap between the number of men and women gradually increased over the years. From 928 in 2018. It increased to 961 in 2020. However, it came down again to 915 this year.

Officials said some of the main reasons for the poor sex ratio cited in government reports were the preference for a son, female infanticide, and higher maternal mortality, among others. Continuous efforts, they said, were being made to improve the sex ratio and make people aware. However, despite a complete ban on pre-natal sex As many as 12 cases were lodged since January this year and the maximum number was reported from the Loni area. There are 324 registered ultrasound centres in Ghaziabad.

The additional chief medical officer, Dr Sunil Tyagi, the nodal officer for the Pre-Conception and Pre-Natal Diagnostic Techniques Act, 1994, said that raids were being conducted to find out if ultrasound centres were conducting sex determination tests. Apart from the raids, pregnant women and families are also being counselled by Asha workers. Several schemes promoting the birth of girls and government benefits are also being highlighted among the rural population, officials have said.

1. What is the number of increase in sex ratio in Ghaziabad in the past decade?

- i) 35 ii) 36 iii) 45 iv) 46

2. What was the sex ratio in the year 2020-21?

- i) 915 ii) 961 iii) 818 iv) 870

3. Why have 30 FIRs been filed in the last three years?

- i) Against maternal mortality ii) Against female oppression
ii) Against domestic violence iv) Against pre-natal sex determination

4. Which area has the most number of cases of violations of pre-natal sex determination tests?

- i) Uttar Pradesh ii) Loni iii) Ghaziabad iv) India

5. In 2012 the sex ratio in Ghaziabad further .

- i) Declined ii) increased
ii) Remained unchanged iv) not mentioned

6. What are the reasons cited for the poor sex ratio?

7. Which of the following is not being done to erase the gap between males and females?

- i) Counselling of pregnant women and families
ii) Providing financial assistance to mother and girl child
iii) Conducting raids on pre-natal Testing Centres
iv) Introducing schemes promoting birth of girls

8. What do you mean by sex ratio?

- i) Ratio of males to females
ii) Ratio of males per thousand females
iii) Ratio of number of females per thousand males
iv) Ratio of female population to total population

9. The word in the passage which means “number of deaths over a period of time” is

- i) Infanticide ii) Pre-natal iii) Mortality iv) Counselling

10. Pick out synonym of ‘counselled’.

- i) Directed ii) de-motivated iii) ensured iv) advised

11. Give a suitable title to the passage.

Q3. Fill in the blanks with suitable determiners:

1. Ramu is ____ honest man who runs ____ small shop around the corner. (a, a / an, a)
2. Have you seen ____ Taj Mahal? It is one of the seven wonders of the world. (the, a)
3. Are ____ your books? Can you share them with me? (these/this)
4. Do you have ____ buns left? I need to buy _____. (any/few, some/several)
5. ____ of the students got ____ chocolates from the teacher. (each, some / each, any)
6. Is ____ book Alisha's? I found it lying on the floor. (this/that)
7. ____ of the boys decided to visit ____ Selfish Giant's garden when he wasn't around. (enough, a / some, the)
8. Do ____ of you like pizza? I thought of ordering _____. (any, some / some, one)
9. ____ of the boys were quarrelling over ____ toy. (both, the / each, the)
10. ____ car met with ____ accident nearby. (the, an / a, a)

Q4. Read through the following sentences, locate the errors and correct them so as to have the verb agree with the subject.

1. She get very nervous every time she see a needle.
2. Artie use a wheelchair to move from one place to another.
3. Neither you nor your brother are a singer.
4. There are a box of chocolates.
5. Sylvester and her sister is going to the same school.
6. Rahul, along with his friend Aakash, has signed up for the debate competition.
7. Quinn wear a coat along with all her dresses.
8. Teenagers uses social media applications on a regular basis.
9. My dad and my mom is teachers.
10. She work as a journalist at the Indian Express.

Q5. Identify the error in the given sentence and supply the correction:

1. Bad movies who have adversely affected the life style of the youth should be banned.

Error

Correction

2. Every trees have a single woody stem called a trunk which supports a mass of branches carrying leaves.

Error

Correction

3. The pleasure in being outdoors is fundamental to human happiness.

Error

Correction

4. Massive discount is offered to all senior citizen vaccinated with the precautionary dose.

Error

Correction

5. Last month a tourist bus collided in a lorry and caused many casualties.

Error

Correction

6. Identify the error on a medicine bottle and write the correction

Take two spoons of syrup at the morning for quick relief from joint pains.

Error

Correction

7. The candidate presented himself proudly before the interview board and stated that he had been working with the core team since five years.

Error

Correction

8. When she returned to her flat, she saw at once that the burglars broke in her absence.

Error

Correction

9. In order to balancing the sentiments of the Eagles and the Hawks, the Student Council suggested a rematch between the teams.

Error

Correction

10. The evil of begging is very common into our society.

Error

Correction

11. There can be no place which you won't find a beggar.

Error

Correction

12. Almond is an excellence source of vitamin-E, magnesium, and manganese.

Error

Correction

हिंदी

कार्यकलाप-1 - किसी एक लेखक या लेखिका के जीवन परिचय पर परियोजना कार्य करें तथा लेखक या लेखिका का चित्र भी चिपकाए।

कार्यकलाप -2 हिंदी भाषा का उत्थान शीर्षक लिखकर चार्ट पेपर तैयार करें।

कार्यकलाप-3 समास को परिभाषित करते हुए परियोजना कार्य तैयार कीजिए।

कार्यकलाप-4 कबीर दास के पांच दोहे A4 साइज शीट पर लिखे तथा आकर्षक बनाएं।

अलंकार तथा वाच्य की पुनरावृत्ति करें।

पी-टी -1 हिंदी पाठ्यक्रम की पुनरावृत्ति करें। पी-टी 2 हिंदी पाठ्यक्रम की पुनरावृत्ति तथा अभ्यास करें।

हिंदी व्याकरण

- किसी भी एक विषय पर औपचारिक तथा अनौपचारिक पत्र लिखें
- शिक्षा का महत्व बताते हुए अनुच्छेद लेखन लिखें।
- स्व वृत्त लेखन तैयार करें।

हिंदी - कार्यपत्रक

प्रश्न 1. निम्नलिखित अपठित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए।

संवाद में दोनों पक्ष बोलें यह आवश्यक नहीं। प्रायः एक व्यक्ति की संवाद में मौन भागीदारी अधिक लाभकर होती है। यह स्थिति संवादहीनता से भिन्न है। मन से हारे दुखी व्यक्ति के लिए दूसरा पक्ष अच्छे वक्ता के रूप में नहीं अच्छे श्रोता के रूप में अधिक लाभकर होता है। बोलने वाले के हावभाव और उसका सलीका, उसकी प्रकृति और सांस्कृतिक-सामाजिक पृष्ठभूमि को पल भर में बता देते हैं। संवाद से संबंध बेहतर भी होते हैं और अशिष्ट संवाद संबंध बिगाड़ने का कारण भी बनता है। बात करने से बड़े-बड़े मसले, अंतर्राष्ट्रीय समस्याएँ तक हल हो जाती हैं। पर संवाद की सबसे बड़ी शर्त है एक-दूसरे की बातें पूरे मनोयोग से, संपूर्ण धैर्य से सुनी जाएँ। श्रोता उन्हें कान से सुनें और मन से अनुभव करें तभी उनका लाभ है, तभी समस्याएँ सुलझने की संभावना बढ़ती है और कम-से-कम यह समझ में आता है कि अगले के मन की परतों के भीतर है क्या?। सच तो यह है कि सुनना एक कौशल है जिसमें हम प्रायः अकुशल होते हैं। दूसरे की बात काटने के लिए, उसे समाधान सुझाने के लिए हम उतावले होते हैं और यह उतावलापन संवाद की आत्मा तक हमें पहुँचने नहीं देता। हम तो बस अपना झंडा गाड़ना चाहते हैं। तब दूसरे पक्ष को झुंझलाहट होती है। वह सोचता है व्यर्थ ही इसके सामने मुँह खोला। रहीम ने ठीक ही कहा था-“सुनि अठिलैहैं लोग सब, बाँटि न लैहैं कोय।” ध्यान और धैर्य से सुनना पवित्र आध्यात्मिक कार्य है और संवाद की सफलता का मूल मंत्र है। लोग तो पेड़-पौधों से, नदी-पर्वतों से, पशु-पक्षियों तक से संवाद करते हैं। राम ने इन सबसे पूछा था-‘क्या आपने सीता को देखा?’ और उन्हें एक पक्षी ने ही पहली सूचना दी थी। इसलिए संवाद की अनंत संभावनाओं को समझा जाना चाहिए।

प्रश्न: 1. उपर्युक्त गद्यांश के लिए उपयुक्त शीर्षक दीजिए।

प्रश्न: 2. ‘संवादहीनता’ से क्या तात्पर्य है? यह स्थिति मौन भागीदारी से कैसे भिन्न है?

प्रश्न: 3. भाव स्पष्ट कीजिए-“यह उतावलापन हमें संवाद की आत्मा तक नहीं पहुँचने देता।”

प्रश्न: 4. दुखी व्यक्ति से संवाद में दूसरा पक्ष कब अधिक लाभकर होता है? क्यों?

प्रश्न: 5. सुनना कौशल की कुछ विशेषताएँ लिखिए।

प्रश्न: 6.हम संवाद की आत्मा तक प्रायः क्यों नहीं पहुँच पाते?

प्रश्न 2 दिए गए काव्य की सप्रसंग व्याख्या कीजिए ।

ऊधौ, तुम हौ अति बड़भागी। अपरस रहत सनेह तगा हैं, नाहिन मन अनुरागी। पुरइनि पात रहत जल भीतर, ता रस देह न दागी। ज्यों जल माह तेल की गागरि, बूँद न ताकी लागी। प्रीति-नदी में पाउँ न बोरयौ, दृष्टि न रूप परागी। 'सूरदास' अबला हम भोरी, गुर चाँटी ज्यों पागी।।

प्रश्न 3 गोपियों द्वारा उद्धव को भाग्यवान कहने में क्या व्यंग्य निहित है?

प्रश्न 4 उद्धव के व्यवहार की तुलना किस-किस से की गई है?

प्रश्न 5. गोपियों ने किन-किन उदाहरणों के माध्यम से उद्धव को उलाहने दिए हैं?

प्रश्न 6 . अर्थ के आधार पर वाक्य भेद

अर्थ के आधार पर निम्नलिखित वाक्यों के भेद लिखिए :-

1. वर्षा होने के कारण नालियों भर गई।
2. क्या आप फिल्म देखने नहीं चलेंगे?
3. आज ममता विद्यालय नहीं आई है।
4. यदि अच्छे अंक आएँगे तो छात्रवृत्ति मिलेगी।
5. अरे! यह गीत तुमने लिखा है।
6. संभवतः इस साल हमारे घर का काम पूरा हो जाए।
7. काश! महंगाई कम हो जाती।
8. इस प्रश्न का उत्तर लिखकर लाना।
9. यात्री पेड़ के नीचे लेटकर आराम कर रहा था।
10. पाश्चात्य संस्कृति का अनुकरण छोड़ दो।

प्रश्न 7 निम्नलिखित अशुद्ध शब्दों के शुद्ध रूप लिखिए।

- 1 हींदी
- 2 कचित्री
- 3 विमारियाँ
- 4 अतीथी
- 5 खुशीयाँ
- 6 परिक्षा
- 7 सुर्य
- 8 पुस्तीका

9 किरपा

10 परीचय

11 परसन्न

12 हस्पताल

प्रश्न 8 निम्नलिखित अशुद्ध वाक्यों को शुद्ध करके लिखिए।

- 1 वह तीसरे मंजिल पर बैठा है।
- 2 काला साँप को देखकर उसका प्राण सूख गया।
- 3 मैंने चेतन भगत की अनेकों कहानियाँ पढ़ी है।
- 4 मेरे को कल ही भारत जाना है।
- 5 हम सब सरकस देखता है।

प्रश्न 8 रचना के आधार पर वाक्य के कितने भेद होते हैं तथा भेदों का विस्तार पूर्वक वर्णन कीजिए।

प्रश्न 9 निम्नलिखित वाक्यों के रचना के आधार पर भेद लिखिए।

- क) जब मित्र आएंगे तब हम खेलेंगे।
- ख) बच्चा भागा और टकराकर गिर गया।
- ग) जैसे ही बारिश हुई वैसे ही बच्चे झुमने लगे।
- घ) वह तेज दौड़ा और पहले पहुंच गया।

प्रश्न 10 किसी भी एक विषय पर अनौपचारिक तथा एक औपचारिक पत्र लिखिए।

प्रश्न 11 किसी भी एक विषय पर संदेश लेखन लिखिए।

Mathematics

1. Complete Your Lab Manual.

2. Make a Portfolio on the following Topics:

- Application of Trigonometry
- Circles
- Triangle.

3. Do practice of NCERT Textbook Chapters (PT – 1 Syallabus)

4. Do the given Worksheets also.

Note: Make a separate Notebook for practice work and Worksheet.

Worksheet

Section A

- What is the largest number that divides 245 and 1029, leaving remainder 5 in each?
 - 9
 - 15
 - 5
 - 16
- The number $(\sqrt{3} + \sqrt{5})^2$ is
 - an irrational number
 - an integer
 - a rational number
 - not a real number
- In a seminar the number of participants in Mathematics, Physics and Biology are 192, 240 and 168. Find the minimum number of rooms required, if in each room same number of participants is to be seated and all of them being in the same subject.
 - 20
 - 28
 - 30
 - 25
- If $\sum f_i u_i = 29$, $\sum f_i = 30$, $a = 47.5$ and $h = 15$, then the value of \bar{x} is
 - 63
 - 26
 - 64
 - 62
- For the following distribution:

Class:	0-5	5-10	10-15	15-20	20-25
Frequency	10	15	12	20	9

The sum of the lower limits of the median class and modal class is:

- 25
 - 30
 - 35
 - 15
- If the arithmetic mean of 7, 8, x, 11, 14 is x, then x =
 - 10
 - 10.5
 - 9.5
 - 9
 - From a well shuffled pack of 52 cards, one card is drawn at random. The probability of getting a black king is
 - $\frac{1}{52}$
 - $\frac{1}{26}$
 - $\frac{1}{13}$
 - $\frac{2}{39}$
 - A letter of English alphabets is chosen at random. The probability that the letter chosen is a vowel is

15. Find the HCF of 1288 and 575 and express it as a linear combination of them.
16. Find the greatest number which divides 85 and 72 leaving remainder 1 and 2 respectively.
17. In a class, there are 18 girls and 16 boys. The class teacher wants to choose one pupil for class monitor. What she does, she writes the name of each pupil on a card and puts them into a basket and mixes thoroughly. A child is asked to pick one card from the basket. What is the probability that the name written on the card is:
- the name of a girl
 - the name of a boy?
18. An integer is chosen at random between 1 and 100. Find the probability that it is:
- divisible by 8
 - not divisible by 8
19. In a family having three children, there may be no girl, two girls or three girls. So, the probability of each is $\frac{1}{4}$. Is this correct? Justify.

Section C

20. Find the HCF of 506 and 1155 and express it as a linear combination of them.
21. Renu is giving away some packs of fruits to the charity. She has 45 oranges and 20 pears. She needs to calculate the maximum number of packs she can make out of the number of fruits available such that the fruits are equally distributed among the packs.
22. The median of following frequency distribution is 25. Find the value of x.

Class:	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
Frequency:	6	9	10	8	x

23. Find 'p' if the mean of the given data is 15.45

Class	Frequency
0 - 6	6
6 - 12	8
12 - 18	p
18 - 24	9
24 - 30	7

24. Three different coins are tossed together. Find the probability of getting
- exactly two heads
 - atleast two heads
 - atleast two tails
25. A die is thrown once. What is the probability that it shows
- a '3',
 - a '5',
 - an odd number
 - a number greater than 4?

Section D

26. The median of the following data is 52.5. Find the values of x and y, if the total frequency is 100.

C.I.	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100
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Frequency	2	5	x	12	17	20	y	9	7	4
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27. Find the mean, median and mode of the following data:

Class	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
Frequency	6	8	10	15	5	4	2

Science

Physics

- **Activity 1:** Make an electric circuit with LED bulbs, connecting wires, small battery (DC).
- Prepare the tabular display of all the **cases of image formation by concave and convex mirror** along with proper neat diagrams of the same (on A-3 size coloured sheets)
- Prepare the tabular display of all the **cases of image formation by convex and concave lens** along with neat and clear ray diagram of all the cases (on A-3 size coloured sheets).

Chemistry

- **Activity 1-** Prepare a report file on **corrosion and rancidity** that occur in our daily life. Make a report file having proper information about the processes and paste real life images.
- What is **pH**? Write pH values for any 10 substances. Paste/Draw the pH scale. (Do it on A-3 size sheets).
- Write about different types of chemical reactions with examples on A-4 size sheets.

Biology

- **Activity 1-** Wet a slice of bread and keep it in a cool, moist and dark place. Observe the surface of the bread slice and record your observations for a week. Paste related pictures. (Do it on A-3 size sheet).
- Make a list of Endocrine glands in human male and human female separately. (Do it on A-4 size sheet).

- Read the chapter 'Life Processes' and complete all the intext questions.

Note: Follow the standards of CBSE while making your project work.

Your best activity out of the three will be considered as your project work. (Your Project should contain detailed information about the topic and related model/pictures should be there.)

Worksheet

A. Tick (✓) the correct option.

1. The number of atoms of each element is conserved in any chemical reaction

- (a) True (b) False (c) Can't say (d) Partially true/false

2. Heating of limestone produces.

- (a) Slaked lime (b) Quick lime (c) Lime water (d) Caustic soda

3. Which of the following is exothermic reaction?

- (a) Dissolution of sodium hydroxide in water
(b) Evaporation of water
(c) Sublimation of silver chloride
(d) Dissolution of salt water

4. Electrolysis of water is a decomposition reaction. The mole ratio of hydrogen and oxygen gas is liberated during electrolysis of water is

- (a) 1:1 (b) 2:1 (c) 4:1 (d) 1:2

5. Which of the following is incorrect statement?

- (a). Mg is more reactive than H
(b). Fe is less reactive than Zn
(c). Cu is more reactive than Al
(d). Ag is less reactive than Cu

6. The filtration unit of kidney are called

- (a) ureter (b) urethra (c) Neurons (d) nephrons

7. The mode of nutrition found in fungi is.

- (a) parasitic nutrition
(b) Holozoic nutrition
(c) Autotrophic nutrition

(d) Saprotrophic nutrition

8. The site of photosynthesis in cell of a leaf is.

(a). chloroplast (b). mitochondria (C). cytoplasm (d).protoplasm

9. Woody plants carry gaseous exchange exchange through

(a). root hair (b). stem hair (C). lenticels (d). epidermal cells

10. In a closed circulatory system, blood is completely enclosed within.

(a). vessels (b). heart (C). skeleton (d).sinuses

11. The resistivity does not change if.

(a). the material is changed

(b). the temperature is changed

(C). the shape of register is changed

(d). both material and temperature are changed

12. In order to distribute a high potential, we connect a number of resistors

(a). In series.

(b).in parallel

(C). some series and some in parallel

(d). it is not possible to distribute potential

13. A multimeter used to measure

(a) Current only

(b) Resistance only

(C) Voltage only

(d) Current resistance and voltage

14. Suppose five resistance, each of 10 ohm are provided to you. You are free to get the desired value by combining them. The desired value will lies in between

(a). 2 ohm to 50 ohm

(b). 20 ohm to 40 ohm

(C). 12 ohm to 50 ohm

(d). 10 ohm to 60 ohm

15. If current through a resistance is increased by 100% simultaneously reducing resistance value of 25 % the new power dissipated will be

(a) Same

(b) increased by 100%

(C) Decreased by 400%

(d) Increased by 400%

B. Write the answers of the following questions

1. Define ohm's law.
2. Define 1 Volt.
3. What is electric current? What is its S.I. unit?
4. Derive the relation for resistor connected in parallel.
5. What is Joule's law heating effect?
6. What is difference between displacement and double displacement reaction? Explain with example.
7. What is decomposition reaction? Also, write the name of the types of decomposition reaction with examples.
8. What is skeletal chemical equation?
9. Define Rancidity.
10. What is the principle of balancing of chemical equation and also write the type of balancing of chemical equation.
11. What is double circulation of blood and how many chambers are there in our heart?
12. Write the process of digestion of food in human alimentary canal?
13. Difference between autotrophic nutrition and heterotrophic nutrition?
14. How plant transport water and food material in their body?
15. How animals and plants excrete the waste of their body?

SOCIAL STUDIES

Historical Instagram: Imagine you are a historical figure or a key figure from a social science concept. Create an Instagram profile for yourself, complete with posts, stories, and highlights that reflect your life, achievements, and impact on society.

Time Travel Journal: Pretend you have traveled back in time to a significant event in history. Write a detailed journal entry describing your experiences, what you see, hear, and feel, and how this event has changed your perspective on history.

Historical News Broadcast: Record a video or audio news broadcast reporting on a historical event or social issue. Include interviews, reports from the scene, and analysis from experts.

Timeline of Change :Create a timeline that traces the evolution of a social issue or concept over time. Include key events, milestones, and changes in societal attitudes or policies.

1. **Yojana Magazine:**

- **Article Review:** Select an article from Yojana that discusses social issues such as poverty, education, or health. summarize the article and analyze its implications on society. also suggest solutions based on your understanding.

- **Government Scheme Analysis:** Choose a government scheme or policy discussed in Yojana (e.g., Swachh Bharat Abhiyan, BetiBachaoBetiPadhao) and research and present its objectives, implementation strategies, and impact.

- **Case Study:**Pick a case study from Yojana that highlights a social issue (e.g., a successful community development project). analyze the case study, identify key factors contributing to its success, and discuss how similar initiatives can be implemented elsewhere.

2. **Kurukshetra Magazine:**

- **Theme Exploration:** Select an issue of Kurukshetra focusing on a specific theme (e.g., rural development, sustainable agriculture) and prepare a project highlighting the key points discussed, challenges faced, and innovative solutions proposed.

- **Interview Assignment:**Choose an interview from Kurukshetra featuring a prominent personality in the field of social development (e.g., an activist, researcher, or government official) prepare questions for a hypothetical interview with that person, focusing on their work and views on relevant issues.

(Kindly purchase the May editions of Yojana and Kurukshetra magazines.)

- **Make a project file on “Soil Erosion and Soil Conservation”**

Note: Work must be done in file.

G.K

1. Read any English newspaper daily and write down 10 news headlines related to politics, economy, society, science & technology, sports etc. In your GK notebook.
2. Make a list of 5 National Parks in India -
 - I. Paste a picture of each in your notebook.
 - II. Gather the information about the flora and fauna found in these regions (National Parks) and write down in your notebook.
3. Write a short biography of Mahatma Gandhi.

Computer

Make a project File on the following topics:

1. Basics of Information Technology

- Definition of the computer.
- Characteristics of the computer
- Limitations of the computers
- Different areas of application (where computers are used)
- Functional Components of a Computer System (Paste the pictures of 4 input, 4 output, 4 storage Devices and write about them).
- Central Processing Unit.
- Primary Memory & Secondary Memory
- Paste a picture of Types of Computer Memory.
- Difference between RAM and ROM

2. Cyber Safety

- Define Cyber safety
- Identity protection
- Confidentiality of information
- Protection from Malware, Virus and Spam (While using the internet)
- Cyber Crime in modern world
- Reporting Cyber- crimes

Note: Make this project in a report file (Punched holes) and paste coloured pictures and use practical pages. Writing must be neat & clean.