Kalgidhar National Public School

Holidays Homework (Session-2024-25)

CLASS lX

English

Task 1: Create a comic chronicle!

● Thoroughly read "The Adventures of Toto" to grasp the storyline and character dynamics.

● Then design a comic strip on an A-4 size sheet that effectively encapsulates the essence

of the story. You can illustrate a specific event from the story through your comic strip.

● Incorporate dialogue to capture the characters' voices and emotions.

● Utilize artistic elements throughout the comic strip to enhance its visual appeal.

● Ensure that the comic strip is detailed, well-expressed, and impactful.

Task 2: Wellness Odyssey: Navigating Healthy Habits

● Embark on an enriching journey towards wellness as you undertake the creation of your

personalized Healthy Habits Tracker diary!

● Craft diary to monitor your

progress in embracing healthy habits. From exercise regimes and dietary choices to

mindfulness practices and self-care rituals.

.Record any four to five events in the form of a diary entry.

● Your diary should offer a

comprehensive account of the voices of your thoughts, encompassing 80-100 words per entry.

Task 3: Crafting Literary Marvels: Fact File

● Find information about the lives and works of any one of the following mentioned authors through the engaging activity, 'Fact File'.

a. Isaac Asimov

b. Mulk Raj Anand

c. Ruskin Bond

d. Robert Frost

e. Rabindranath Tagore

● Your fact file should be a comprehensive exploration of the chosen author, incorporating

the following components on each page:

a. Author's Biography

b. Literary Contributions of the author

c. Historical Context

d. Key Works of the author

e. Bibliography

● Create your fact file on A-4 size sheets and enrich it with vibrant colors and visuals,

bringing the literary geniuses to life on the pages. Let your imagination fly as in this artistic journey into the world of literature.

Task 4: Design Your Own Newspaper Adventure

● Prepare to set sail on a thrilling journey as you design your very own newspaper, "The

Young Voice." Showcase your creativity with these five dynamic sections to explore

● Newspaper Sections:

a. Facts and Figures.

b. Creative Corner: Share your original poetry or short stories in this section.

c. Quotes: Curate a collection of profound and thought-provoking quotes given by various authors.

d. Entertainment: Incorporate engaging articles, reviews, and insights into the latest

movies, books, music, and more.

e. Games & Puzzles: Add interactive games and puzzles based on tenses, verbs,

prepositions, or conjunctions.

● Gather your materials and let your creativity flow onto A4 size sheets, allocating one

page to each section of your newspaper.

Task 5: Storyboard Expedition

● Design an engaging storyboard on an A-4size sheet inspired by Robert Frost's "The Road Not Taken" or Christina Rossetti's "Wind".

● Your storyboard should serve as a visual narrative, depicting the poem through a sequence of vivid illustrations and text.

ग्रीष्मकालीन अवकाश गृहकार्य   हिंदी

निर्देश—सभी विद्यार्थी यह गृहकार्य ग्रीष्मक़ालीन अवकाश में करेंगे ।

प्रश्न-1 कवि रैदास के पदों की व्याख्या अपने शब्दों में कीजिए।

प्रश्न-2 निम्नलिखित में से किसी एक पर 100 शब्दों में अनुच्छेद लिखिए।

(क) जीवन में व्यायाम का महत्व (ख)कंप्यूटर : आज की आवश्यकता

प्रश्न 4 निम्नलिखित विषयों पर लगभग 100 शब्दों में संवाद लिखिए।

(क) वृक्षों के महत्व पर बात करते हुए दो मित्रों के बीच संवाद।

(ख) कोरोनावायरस के प्रभाव पर दो व्यक्तियों के बीच संवाद।

प्रश्न -5(क) शिक्षा का महत्व बताते हुए मित्र को पत्र लिखिए।

(ख) आपकी छोटी बहन ने परीक्षा में प्रथम स्थान प्राप्त किया है बधाई देते हुए पत्र लिखिए।

प्रश्न-6 ऐसे 10 शब्द लिखिए जिसमे उपसर्ग व प्रत्यय दोनों का प्रयोग हो।

प्रश्न 7– पोर्ट्फ़ोलियो का कवर तैयार करिए ।

ਪੰਜਾਬੀ

1.ਭਾਈ ਵੀਰ ਸਿੰਘ ਜੀ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੋਇਆ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰੋ।

2.ਕਹਾਣੀ (ਜਨਮ ਦਿਨ, ਸਾਂਝੀ ਕੰਧ,ਬੱਸ ਕੰਡਕਟਰ) ਪੜ੍ਹੋ।

3.ਇਕਾਂਗੀ (ਮੈਨਯਾਰੀ) ਪੜ੍ਹੋ।

4. ਪੰਜਾਬੀ ਵਿਆਕਰਨ ਦੀ ਕਿਤਾਬ ਵਿੱਚੋਂ page ਨੰਬਰ(369)ਪੱਤਰ ਨੰਬਰ(4) punjabi ਦੀ ਕਾਪੀ ਵਿੱਚ ਲਿਖੇ ।

5.ਪੰਜਾਬੀ ਵਿਆਕਰਨ ਕਿਤਾਬ ਵਿੱਚੋਂ page ਨੰਬਰ (505) ਲੇਖ (ਇੱਕ ਚੰਗਾ ਨਾਗਰਿਕ) ਪੰਜਾਬੀ ਦੀ ਕਾਪੀ ਵਿੱਚ ਲਿਖੇ ।

6.ਵਿਆਕਰਨ ਕਿਤਾਬ ਵਿੱਚੋ ਪਾਠ (ਵਿਸਮਿਕ) ਪੜ੍ਹੋ।

MATHS

NOTE - TO BE DONE IN THE ASSIGNMENT / PRACTICE REGISTER

Q1. Practice and solve all examples and exercise questions of NCERT book of chapter 1 and 2 in practice register.

Q2**. Activities :-**

1. Construct the 'square root spiral' on an A4 size sheet.

2 Represent the following polynomial on an A4 size sheet (using coloured papers)

x^2 + 5x + 6

Q3. Below are the practice questions of chapter 1 and 2.

Chapter- 1 Number system

Q1. Find three rational number between:

i. $\frac{1}{3}$ and $\frac{5}{4}$ ii. $\frac{-3}{5}$ and $\frac{-1}{3}$

Q2. Find three irrational number between:

i.   -11 and -12   ii. $\sqrt{2}$ and $\sqrt{3}$

Q3. Express the following in the form of $\frac{p}{q}$, where p and q are integers , q ≠ 0.

i. 0.03$\underline{27}$ ii. 4.38888   iii. 1.$\underline{314}$

Q4. Simplify the following:

i. (5 + $\sqrt{7}$) (2 + $\sqrt{5}$)   ii. ($2\sqrt{3}$ + $6\sqrt{5}$) ($5\sqrt{2}$ - $3\sqrt{3}$)

iii. ($\sqrt{11}$ + $\sqrt{7}$) ($\sqrt{11}$ - $\sqrt{7}$)   iv. ($8\sqrt{2}$ + $3\sqrt{5}$) ($3\sqrt{2}$ - $6\sqrt{3}$)

Q5. Rationalize the denominator of the following:

i. $\frac{25}{\sqrt{2} + \sqrt{5}}$ ii. $\frac{3}{\sqrt{7} - \sqrt{2}}$ iii. $\frac{4\sqrt{3} + 3\sqrt{2}}{6\sqrt{2} - 3\sqrt{5}}$ iv. $\frac{8}{3\sqrt{2} + 7\sqrt{3}}$

Q6. Simplify the following:

i. $\left(\frac{64}{125}\right)^{\frac{-2}{3}} + \left(\frac{625}{256}\right)^{\frac{1}{4}} + \frac{\sqrt{25}}{\sqrt[3]{64}}$

ii. $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[3]{32} + \sqrt{225}$

Q7. Simplify:

i. $\frac{4+\sqrt{5}}{4-\sqrt{5}} + \frac{4-\sqrt{5}}{4+\sqrt{5}}$

ii. $\frac{2\sqrt{6}}{\sqrt{3}+\sqrt{2}} + \frac{6\sqrt{2}}{\sqrt{6}+\sqrt{3}} - \frac{8\sqrt{3}}{\sqrt{6}+\sqrt{2}}$

Q8. Represent the following on the number line:

$\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$

Q9. a. If $\frac{3+\sqrt{7}}{3-\sqrt{7}} = a + b\sqrt{7}$, Find the value of a and b.

ii. If $x = \frac{2-\sqrt{5}}{2+\sqrt{5}}$ and $y = \frac{2+\sqrt{5}}{2-\sqrt{5}}$, find $x^2 - y^2$

iii. If $x = 3 + \sqrt{8}$, find $x^2 + \frac{1}{x^2}$

Chapter - 2 Polynomials

Q1. Write the coefficient of x in the expansion $(3 - 2x)^2$

Q2. If $p(x) = x^3 - x^2 + x + 1$, find the value of $\frac{p(-1) + P(1)}{2}$

Q3. Find the value of k, if (x - 1) is a factor of $4x^3 + 3x^2 - 4x + k$.

Q4. If $(x - 3)$ and $(x - \frac{1}{3})$ are factors of the polynomial $px^2 + 3x + r$, show that p = r.

Q5. a. . If 2x + 3y = 12 and xy = 6. Find the value of $8x^3 + 27y^3$.

b. If a + b = 6 and a - b = 2, find the value of $2a^2 - 2b^2$

Q6. Factorise:

i. $6ab - b^2 + 12ac - 2bc$

ii. $9(2a - b^2) - 4(2a - b) - 13$

Q7. Factorise by splitting the middle term :

a. $x^2 + 9x + 20$

e. $\sqrt{2}x^2 + 7x + 5\sqrt{2}$

b. $x^2 - 14x + 13$

f. $3x^2 - 2\sqrt{6}x + 2$

c. $3m^2 + 10m + 8$ g. $\sqrt{3}x^2 - 2\sqrt{2}x - 2\sqrt{3}$

d. $(a-3)^2 + 5(a-3) - 36$ h. $4\sqrt{3}x^2 + 5x - 2\sqrt{3}$

Q8. Using factor theorem, factorize each of the following polynomials::-

a. $3x^3 - x^2 - 3x + 1$

b. $x^3 + 13x^2 + 32x + 20$

c. $x^3 - 6x^2 + 3x + 10$

d. $2y^3 - 5y^2 - 19y + 42$

Science

1.Revise Lesson -1, 2,5

2.Complete Lab manual

3.Make a beautiful chat

SOCIAL SCIENCE

Prepare project file on 'DISASTER MANAGEMENT'

Sub Topics - What is Disaster? (General Introduction)

-Types of Disaster (Natural and Man-made)

- Briefly explain each disaster

- Consequences of disaster

- Disaster management

- create awareness and preparedness

NOTE-The project should not exceed more than 15 pages and the project

report must be handwritten as it will be evaluated for internal marks.

- Picture should be pasted wherever needed

EBSB- Prepare a project on Arunachal Pradesh covering the Social, political,

*Write about merits and demerits of democracy. Make a list of 10

democratic countries and 5 non democratic countries and also find out

which type of government is there in that five non democratic

countries.

*Make a list of all the States and Union Territories (with their capital)

of India and learn it.

*Write an essay on Napoleon Bonaparte. (Also paste picture)

*Complete the question answers of all the chapters taught.

*Practice all the maps of history & geography and make a file for future

reference

*- Locate all the states and Union Territories on political map of India.

 (Practice this map work 5 times)

*Practice all the map work from ch. 1 Geography

*Mark all the European countries on political map of world.

*Draw a map of France and locate the following areas Nantes, Bordeaux, Paris, Bastille and Marseilles