SUMMER HOLIDAY HOMEWORK 2025-26

ROOP VATIKA SCHOOL
AFFILIATED TO CBSE, NEW DELHI

PREFACE

Dear Parents and Students,

Summer vacation is around the corner, bringing with itself a much-needed respite from hectic school days. We hope that you will thoroughly enjoy the vacations and make the most
of this summer. While it is indeed important that you relax and refresh yourselves, it is also important that you exercise your minds.

Keeping this in mind, we have designed various exciting activities to keep the students engaged and active during the summer vacation. These fun projects/ assignments would enhance learning skills, help understand concepts better, and make for a great crash course aimed at improving academic output.

These activities will not only help you to revise what was taught, but will also enrich your knowledge. These projects will be assessed as Subject Enrichment Activity, Portfolio or Art Integrated activity.

We encourage parents to motivate and support the students to ensure the given work is completed in time, to the best of their ability. Your support and encouragement both have a huge impact on your child's learning ability.

The Holiday Home Work is to be done neatly with relevance to the questions asked and to be submitted to the subject teachers within a week of reopening of the school. **Homework submitted late will invite negative marking. It is important that deadlines are met.**

Wishing you a fun filled, safe summer vacation.

PRINCIPAL
ROOP VATIKA SCHOOL
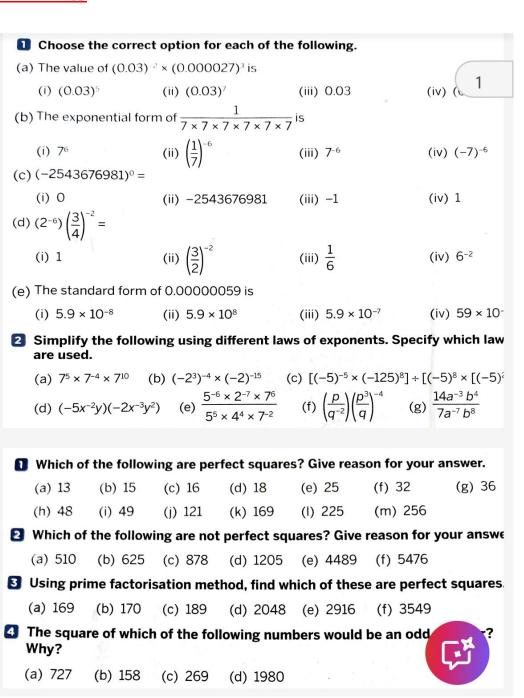**JAGRAON**

Complete first 3 Unseen passages of Literary Book.

2. Write 3 types of invitations (wedding, Birthday, Engagement, Anniversary, Pool Party, Kitty Party) on A4 sheets in a decorative way

3. Write 30 forms of verb.

4. Make a presentation on the topic determiners or Modals (use long sheet for presentation) make presentation only on one topic.

MATHEMATICS

1 Choose the correct option for each of the following.

(a) The value of $(0.03)^{-2} \times (0.000027)^3$ is

   (i) $(0.03)^5$ (ii) $(0.03)^7$ (iii) 0.03 (iv) (

(b) The exponential form of $\dfrac{1}{7 \times 7 \times 7 \times 7 \times 7 \times 7}$ is

   (i) 7^6 (ii) $\left(\dfrac{1}{7}\right)^{-6}$ (iii) 7^{-6} (iv) $(-7)^{-6}$

(c) $(-2543676981)^0 =$

   (i) 0 (ii) -2543676981 (iii) -1 (iv) 1

(d) $(2^{-6})\left(\dfrac{3}{4}\right)^{-2} =$

   (i) 1 (ii) $\left(\dfrac{3}{2}\right)^{-2}$ (iii) $\dfrac{1}{6}$ (iv) 6^{-2}

(e) The standard form of 0.00000059 is

   (i) 5.9×10^{-8} (ii) 5.9×10^8 (iii) 5.9×10^{-7} (iv) $59 \times 10^-$

2 Simplify the following using different laws of exponents. Specify which law are used.

(a) $7^5 \times 7^{-4} \times 7^{10}$ (b) $(-2^3)^{-4} \times (-2)^{-15}$ (c) $[(-5)^{-5} \times (-125)^8] \div [(-5)^8 \times [(-5)^{?}$

(d) $(-5x^{-2}y)(-2x^{-3}y^2)$ (e) $\dfrac{5^{-6} \times 2^{-7} \times 7^6}{5^5 \times 4^4 \times 7^{-2}}$ (f) $\left(\dfrac{p}{q^{-2}}\right)\left(\dfrac{p^3}{q}\right)^{-4}$ (g) $\dfrac{14a^{-3}b^4}{7a^{-7}b^8}$

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1 Which of the following are perfect squares? Give reason for your answer.

(a) 13   (b) 15   (c) 16   (d) 18   (e) 25   (f) 32   (g) 36

(h) 48   (i) 49   (j) 121   (k) 169   (l) 225   (m) 256

2 Which of the following are not perfect squares? Give reason for your answe

(a) 510   (b) 625   (c) 878   (d) 1205   (e) 4489   (f) 5476

3 Using prime factorisation method, find which of these are perfect squares.

(a) 169   (b) 170   (c) 189   (d) 2048   (e) 2916   (f) 3549

4 The square of which of the following numbers would be an odd   r? Why?

(a) 727   (b) 158   (c) 269   (d) 1980

1. Square of 7 is _____ and cube of 7 is _____.

2. Square of 11 is _____, cube of 11 is _____ and cube root of 1331 is _____.

3. (i) $(2)^3 =$ _____   (ii) $(0{\cdot}2)^3 =$ _____   (iii) $\left(\dfrac{1}{2}\right)^3 =$ _____.

4. (i) $(5)^3 =$ _____   (ii) $(0{\cdot}5)^3 =$ _____   (iii) $\left(\dfrac{1}{5}\right)^3 =$ _____.

5. (i) $(20)^3 =$ _____   (ii) $(30)^3 =$ _____   (iii) $\left(\dfrac{2}{3}\right)^3 =$ _____.

6. (i) Is 27 a perfect cube? _____   (ii) Is 32 a perfect cube? _____

7. (i) Is 125 a perfect cube? _____   (ii) Is 4096 a perfect cube? _____

8. Cube of an odd number is always an _____ number.

9. Cube of an even number is always an _____ number.

10. Cube of ab^2 and $-xy^2$ is _____ and _____.

11. Work out the prime factors and find the cube root:

(i)   512   (ii)   1728

512 =

Cube root =

1728 =

Cube root =   3

Write three examples for each of the following:

(a) Divisible by 4

(b) Divisible by 3 but not by 9

(c) Divisible by 5 but not by 10

(d) Divisible by 11 and 2

SOCIAL SCIENCE
1. Prepare a project file .

       (A) Topic- Depletion of resources

Collect information related to the depletion of resources over the year and its impact on man's life

       (B) Maximum length should be up to 10 to 15 pages .

       (C) Illustrate the topic with required picture.

2. Fill Indian political map and paste on fair notebook.

3. Revise all the chapter done so far.

    4. Complete the assignment of page no. 104 of your book

HINDI

पाठ – 3,4 पढे, bookpart learn करें और पाठ 3, 4 की अन्य कॉपी पर सुंदर लिखाई में लिखकर दोहराई करें।

*व्याकरण चार्ट बनाएँ :-

    ✺ समास (तत्पुरुष)

    ✺ पदबंध (संज्ञा और सर्वनाम)

*अनुच्छेद लेखन

विषय:- विद्यार्थी और अनुशासन

संवाद लेखन :-मां और बेटी के बीच फैशन के बारे में

PUNJABI

1. ਪੰਜਵੇਂ ਗੁਰੂ ਸ੍ਰੀ ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਬਾਰੇ ਆਪਣੇ ਵਿਚਾਰ ਦਿਓ ।

2. ਅੰਗਰੇਜ਼ਾਂ ਨੇ ਭਾਰਤੀਆਂ ਤੇ ਕੀ ਕੀ ਜ਼ੁਲਮ ਕੀਤੇ, ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।

3. ਆਨਲਾਈਨ ਐਜ਼ੂਕੇਸ਼ਨ ਦੇ ਵੱਖ-ਵੱਖ ਪਲੇਟਫਾਰਮ (ਐਪ) ਜੋ ਪ੍ਰਚਲਿਤ ਹਨ, ਬਾਰੇ ਸੰਖੇਪ ਵਿੱਚ ਲਿਖੋ ।

Do on fair notebook.

COMPUTER
       ❖·Learn and Complete Ch-1,2 Book Part and Q/Aalong with Assignments
       ❖·Do the following Tasks neatly on your COMPUTER NOTEBOOK

_____

A) Match the following:

Ji Column A   Column B

1) Windows   1. Mobile operating system
2) Android   2. Lets you see and manage your files
3) GUI   3. Operating system used on computers
4) Icons   4. Pictures that open programs
5) File Explorer 5. User interface with pictures and buttons.

_____

B) Fill in the blanks.

1) Operating system works as the _____ for a computer.
2) Windows is an example of _____ user interface.
3) CUI uses _____ based commands to operate the working of a computer.
4) The _____ bar helps you to find any application you want to find.

_____

C) Tick the correct option.

1) _____ is the interface between the user and the hardware.
   a) Operating system b) System software
c) Hardware d) Application software
2) Which of the following helps other software to run on the computer?
   a) User software b) Application software
c) Operating system d) Desktop
3) The other name for a CUI is _____.
   a) GUI b) Windows c) CLI d) CGI
4) Which of the following is located on the right side of the task bar?
   a) Start button b) Notification area   c) Search box   d) Task view button
5) _____ button minimises all the currently opened program windows to view desktop.
   a) Start b) Peek c) Task view d) Menu

_____

D) Write T for true and F for False

1) A computer system is made of hardware and software.
2) CLU is another name for CUI.
3) GUI uses text-based commands to command the computer.

_____

E) Real-Life Activity 1: "OS Detective - Family Edition"
Objective: Identify the different operating systems used at home.

Instructions:

1) Ask your family members what devices they use (e.g., phone, laptop, tablet).
2) Find out which **Operating System (OS)** each device runs (e.g., Android, Windows 10, IOS, macOS).
3) Note down:
   - □□Device name
   - □□OS name and version (if possible)
   - □□Manufacturer of the device
4) Present your findings in a **colorful chart or table**.

*If you can: Find and paste logos of each OS next to the entries.

SCIENCE : Open the link solve the worksheets
https://drive.google.com/file/d/1Nl89N8pIvdERFv0zja56wWcud5WAv4SL/view?usp=drivesdk

Q1. Write any 4 differences between sexual and asexual reproduction.

Q2. What is cloning?

Q3.Draw a well- labelled diagram of life cycle of a butterfly.

Q4. What are viviparous animals? Give examples.

Q5. What is the function of Testes and sperm ducts?

Q6. What is fertilization? Give its two types.

Q7. What is zygote?

Q8. Define reproduction and offspring.

Q9. What are gametes?

Q10. Write 3 steps involved in sexual reproduction.

Make a project on any one of the following -

1. Spring balance

2. Balloon car

3. Periscope

GENERAL KNOWLEDGE
Complete the book unit 1 and 3 and revise it.
Do the worksheet that will be shared in the class group and do it on the G.k. notebook

☑ **Section A: Multiple Choice Questions (MCQs)**
Tick (✓) the correct option.

1. Flamenco is a dance form from:
   a) France   b) India   c) Spain   d) Brazil

2. The Moon takes around _____ days to orbit the Earth.
   a) 24   b) 7   c) 27.3   d) 365

3. Burj Khalifa is located in:
   a) New York   b) Shanghai   c) Dubai   d) Tokyo

4. Founder of Tesla Inc. is:
   a) Bill Gates   b) Jeff Bezos   c) Elon Musk   d) Warren Buffett

5. Ballet originated from:
   a) Italy   b) China   c) Russia   d) Canada

6. The Moon has no:
   a) Light of its own   b) Craters   c) Gravity   d) Orbit

7. Shanghai Tower is in:
   a) Hong Kong   b) Shanghai   c) Beijing   d) Seoul

8. Mukesh Ambani is the chairman of:
   a) Tata Group   b) Infosys   c) Reliance   d) Flipkart

9. Samba dance is popular in:
   a) Argentina   b) Brazil   c) Peru   d) Chile

10. A lunar eclipse is caused by:
    a) Sun   b) Venus   c) Jupiter   d) Earth

🆎 Section B: Jumbled Words
Rearrange the letters to form correct words.

1. LLOBAET – _____

2. RMOOACN – _____

3. HABIKRL FAJUB – _____

4. SNEOML KUEM – _____

5. SALET – _____

✍ Section C: Fill in the Blanks

1. The dance form **Dragon Dance** is performed in _____.

2. A **solar eclipse** occurs when the _____ comes between the Earth and the Sun.

3. The second tallest building in the world is _____.

4. Jeff Bezos is the founder of _____.

5. The Moon affects Earth's _____ (related to oceans).

☑ Section D: True or False
Write **True** or **False** for the following statements:

1. Ballet is a traditional dance of India. – _____

2. The Moon has its own light. – _____

3. The Earth is larger than the Moon. – _____

4. Lotte World Tower is taller than Burj Khalifa. – _____

5. Elon Musk is associated with Tesla and SpaceX. – _____

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