



BRCM Gyankunj School

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दिनांक :-31.05.2025

कार्यालय आदेश

प्रिय अभिभावक,

विद्यालय में ग्रीष्मकालीन अवकाश

दिनांक 01 जून 2025 रविवार से 30 जून 2025 दिन सोमवार तक

विद्यालय 01 जुलाई 2025 (मंगलवार) से ग्रीष्मकालीन अवकाश के उपरांत खुलेगा !

आपसे अनुरोध है कि:-

- अपने बच्चे को छुट्टियों का गृहकार्य नियमित रूप से करने के लिए प्रोत्साहित करें !
- बच्चे को अधिकाधिक समय दें, उसके साथ बातचीत करें, खेले आदि !
- सुनिश्चित करें कि बच्चा मोबाइल फोन का प्रयोग बहुत कम करें ! मोबाइल फोन का प्रयोग अति आवश्यक होने पर ही करने दें !
- ग्रीष्मकालीन अवकाश के दौरान विद्यालय कार्यालय खुला रहेगा!(समय 09:00am से 01:00pm)
- यदि आपके बच्चे की अब तक की फीस जमा नहीं की गई है तो कृपया शीघ्र जमा करें, अन्यथा विलंब शुल्क लगेगा !
- आप फीस ऑनलाइन भी जमा कर सकते हैं, ऑनलाइन फीस जमा कराने पर निम्न का प्रयोग करें !

Noted:- फीस जमा करने पर (बच्चे का नाम और आईडी नंबर के साथ) इस नंबर पर स्क्रीनशॉट व्हाट्सएप करें ! +91 9991500255 (Accounts Officer)

Account Holder Name – BRCM Gyankunj School
Account Number. 7065928943
IFSC Code:- IDIB000B547
Bank Name :- Indian Bank - Bahal



**आपका सहयोग ही हमारी सफलता का आधार है !
धन्यवाद !**

प्राचार्य



BRCM GYANKUNJ SCHOOL

BAHAL-127028, BHIWANI

SUMMER HOLIDAY HOME WORK- 2025

CLASS:IX

English:-

- ❖ Make a tense chart showing all its kinds, along with two examples of each tense.
- ❖ Write the summary of the two chapters 'The Lost Child' and 'The fun they had' in your own words.
- ❖ Write 50 difficult words from your textbook and make one meaningful sentence with each word.
- ❖ Read any of the English newspapers daily and write two headlines of the same everyday.

हिन्दी:-

- ❖ ग्रीष्मकालीन अवकाश में बिताए अनुभव को अपने शब्दों में लिखिए।
- ❖ किन्हीं पांच विषयों पर अनुच्छेद लेखन कीजिए।
- ❖ पांच औपचारिक एवं पांच अनौपचारिक पत्र लिखिए।
- ❖ अपनी मनपसंद कोई पांच विषयों पर कहानी लेखन कीजिए।
- ❖ पांच विषयों पर प्रेरणा प्रद संवाद लेखन कीजिए।
- ❖ उपसर्ग एवं प्रत्यय जोड़कर कोई 20 सार्थक शब्द लिखिए।

Social Science:-

- ❖ Project work- prepare your project work from the following topics:-
- ❖ A/ Forest society and colonialism (Chapter-4, History)
Or
- ❖ B/ Natural vegetation and wildlife (Chapter-5, Geography)
- ❖ Map skill- practice and learn in outline map of India (Geography chapter-1, 2 and 3) as you have done in classroom teaching.
- ❖ Chart/Diagram- make any one diagram or chart related to social science on any topic.

Science:-

BIOLOGY

- ❖ Draw the labelled diagram of plant cell and animal cell.
- ❖ Write an essay on "Discovery of cell" in about 50 words.

PHYSICS

- ❖ Make a portfolio on topic: Natural Phenomenon
- ❖ Write two experiments in practical file.
- ❖ Write 50 MCQs from each chapters.(Ch-7 Motion,Ch-8 Force and laws of motion)

CHEMISTRY

- ❖ Write the activities of chapter 1 in practical file.
- ❖ Answer the following questions:
 - Define matter. Write its characteristics.
 - Explain the different states of matter with examples.
 - Differentiate between physical and chemical changes with two examples each.
 - What is diffusion? Give one example from daily life.
- ❖ Define the following:
 - Latent heat
 - Evaporation
 - Sublimation
 - Melting point

AI:-

- ❖ Write 15 Python Programs in a Practical File.

Mathematics:-

Chapter 1: Number Systems (50 Questions)

1. Define rational number.
2. Is $\sqrt{2}$ a rational or irrational number?
3. Express 0.777... in the form p/q .
4. Is the sum of a rational and irrational number always irrational?
5. Express 1.333... as a fraction.
6. Prove that $\sqrt{5}$ is irrational.
7. Classify the number -7 under the number system.
8. Write the decimal expansion of $7/8$.
9. Is $22/7$ a rational number?
10. Define irrational number with an example.
11. Write the decimal expansion of $2/11$.
12. Is the product of two irrational numbers always irrational?
13. Convert 0.272727... to a rational number.
14. What is the value of $\sqrt{81}$?
15. Find two irrational numbers between 2 and 3.
16. State the closure property of rational numbers.
17. Is $\sqrt{49}$ a rational number?
18. Express 1.010101... in p/q form.
19. What type of decimal expansion does a rational number have?
20. Can every irrational number be expressed as a non-terminating non-repeating decimal?
21. Prove that $3\sqrt{2}$ is irrational.
22. Is the sum of two rational numbers always rational?
23. Find three rational numbers between 1 and 2.
24. Write 0.125 in fractional form.
25. Identify whether π is rational or irrational.
26. Write 5.5 as a rational number.
27. Convert 0.08333... to p/q form.
28. Find the square root of 121.
29. Classify 0 under the number system.
30. Express $\sqrt{3}$ in decimal form (up to 3 decimal places).
31. Write a rational number greater than -1 and less than 0.
32. State the associative property of rational numbers.
33. Find a rational number between $4/5$ and $5/6$.
34. Is 0.4 a terminating decimal?
35. Write the decimal expansion of $5/6$.
36. Are all real numbers rational?
37. Convert $2.\overline{6}$ to fractional form.
38. Write any two irrational numbers.
39. Give one example each of rational and irrational numbers.
40. Is $\sqrt{7} + 3$ rational?
41. Represent $\sqrt{2}$ on a number line.
42. Find $1/7$ as a decimal (up to 4 decimal places).
43. Find the cube root of 27.
44. Express $3/4$ as a terminating decimal.
45. Find the square of $\sqrt{2}$.
46. Find the value of $\sqrt{50} \times \sqrt{2}$.
47. Find the HCF of 12 and 30.
48. Write $\sqrt{10}$ in p/q form if possible.
49. What is the product of two rational numbers?
50. Define real numbers.

Chapter 2: Polynomials (50 Questions)

51. Define polynomial.
52. What is the degree of $3x^2 + 5x + 2$?
53. Identify the variable in the expression $7x^3 - 4x$.
54. Is $x^3 + 3x^2 + \sqrt{2}$ a polynomial?
55. Classify: $4x^2 + 2x + 7$.
56. Find the value of polynomial $p(x) = x^2 - 3x + 4$ at $x = 2$.
57. Write an example of a cubic polynomial.
58. Define monomial with an example.
59. Is $5/x$ a polynomial?
60. What is the degree of a constant polynomial?
61. Find the remainder when $p(x) = x^2 + 1$ is divided by $x - 1$.
62. Define binomial with an example.
63. What is the degree of $2x^5 - 3x^4 + 7x$?
64. Evaluate $p(x) = x^3 - x$ at $x = -1$.
65. Is x^{-2} a polynomial?
66. Classify $3x^4 + 2x^3 - 1$ as monomial/binomial/polynomial.
67. Find zero of $p(x) = x + 3$.
68. Write any three terms of the polynomial $x^2 + 4x + 5$.
69. Define zero of a polynomial.
70. Find the value of $p(x) = 2x^2 - 3x + 1$ at $x = 3$.
71. Find the value of the polynomial $4x^2 + 3$ at $x = 1$.
72. Write the coefficient of x in $7x - 9$.
73. Is $2 + x/2$ a polynomial?
74. What is the leading coefficient of $5x^3 - 4x^2 + x - 2$?
75. Classify: 3, $4x$, and $5x^2$.
76. What is the constant term in $x^2 - 2x + 1$?
77. Find $p(2)$ for $p(x) = x^2 + 2x + 1$.
78. Give an example of a quadratic polynomial.
79. Find degree of polynomial $2 - x + 3x^4 - 5x^2$.
80. What is the coefficient of x^2 in $6x^2 + x + 1$?
81. If $p(x) = x^2 + x - 6$, find $p(-2)$.
82. What is the number of terms in $3x^2 - 4x + 7$?
83. Define a linear polynomial.
84. What is the value of polynomial $x^2 - 2x + 1$ at $x = 1$?
85. Give an example of a binomial of degree 2.
86. Find zero of the polynomial $p(x) = 3x$.
87. What is a constant polynomial? Give an example.
88. Find $p(-1)$ for $p(x) = x^3 - x^2 + x - 1$.
89. What is the difference between expression and polynomial?
90. Classify: $6x^2 + 3x - 5$.
91. If $p(x) = 2x - 5$, find $p(3)$.
92. Find the degree of $x^2 + x + 1/x$.
93. Write a polynomial of degree 1.
94. Write a polynomial of three terms in x .
95. Find the sum: $(x^2 + 3x + 1) + (2x^2 - x - 5)$.
96. Find the product: $(x + 2)(x - 2)$.
97. Divide: $(x^2 - 4) \div (x - 2)$.
98. Find: $(3x^2 + 2x - 1) - (x^2 - x + 2)$.
99. What is the remainder when $x^2 - 2x + 1$ is divided by $x - 1$?
100. Define a cubic polynomial with example.