



तत् त्वं पूषन् अपावृणु
केन्द्रीय विद्यालय संगठन

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AUTUMN BREAK

HOLIDAY HOMEWORK

Class 9



HINDI

खंड-क : अनुच्छेद लेखन

निर्देश: निम्नलिखित विषयों पर दिए गए संकेत-बिंदुओं के आधार पर अनुच्छेद लिखिए।

1. विद्यार्थी जीवन में समय का महत्त्व

संकेत-बिंदु: समय की अमूल्यता • समय-सारणी का महत्त्व • समय का सदुपयोग • सफलता में समय की भूमिका।

2. सोशल मीडिया : लाभ और हानि

संकेत-बिंदु: सोशल मीडिया का बढ़ता प्रभाव • ज्ञान एवं सूचना का साधन • दुष्प्रभाव • संतुलित उपयोग की आवश्यकता।

3. जल संरक्षण की आवश्यकता

संकेत-बिंदु: जल का महत्त्व • जल संकट के कारण • जल संरक्षण के उपाय • नागरिकों का दायित्व।

4. पुस्तकें हमारी सच्ची मित्र

संकेत-बिंदु: पुस्तकों का महत्त्व • ज्ञान की प्राप्ति • व्यक्तित्व विकास • पुस्तक-पठन की आदत।

5. पर्यावरण संरक्षण में विद्यार्थियों की भूमिका

संकेत-बिंदु: पर्यावरण प्रदूषण • वृक्षारोपण • स्वच्छता एवं प्लास्टिक का कम उपयोग • विद्यार्थियों का योगदान।

खंड-ख : अनौपचारिक पत्र लेखन

निर्देश: निम्नलिखित विषयों पर अनौपचारिक पत्र लिखिए।

1. परीक्षा में सफलता प्राप्त करने पर मित्र को बधाई पत्र।

2. छोटे भाई को मोबाइल फोन का सीमित उपयोग करने की सलाह देते हुए पत्र।

3. मित्र को अपने विद्यालय में आयोजित विज्ञान प्रदर्शनी का वर्णन करते हुए पत्र।

4. मित्र को अपने घर शरदकालीन अवकाश बिताने के लिए आमंत्रित करते हुए पत्र।

5. मित्र को नियमित व्यायाम और संतुलित आहार अपनाने की सलाह देते हुए पत्र।

खंड-ग : संवाद लेखन

निर्देश: निम्नलिखित विषयों पर दो व्यक्तियों के बीच संवाद लिखिए।

1. परीक्षा की तैयारी के संबंध में दो मित्रों के बीच संवाद।

2. पर्यावरण संरक्षण के विषय में दो विद्यार्थियों के बीच संवाद।

नोट: विद्यार्थी अपनी पोर्टफोलियो फाइल पूर्ण करें।

MATHS

Chapter: Orienting Yourself: The Use of Coordinates

1. Plot the points (2, 3), (-2, 4), (-3, -2) and (4, -1) on a graph and name the quadrant of each.
2. Write the coordinates of one point on the x-axis and one point on the y-axis.
3. Find the distance between the points (2, 3) and (2, 8).
4. Find the distance between the origin and the point (3, 4).
5. In which quadrant does the point (-5, 6) lie?
6. Write the coordinates of the reflection of the point (3, -4) in the x-axis.
7. Find the distance between (-1, 2) and (2, -2).
8. The point (0, y) lies on which axis? Give one example.

Chapter : Introduction to Linear Polynomials

1. Identify the terms, coefficients and variables in $5x - 3y + 7$.
2. Find the degree of the polynomial $4x^3 - 2x + 1$.
3. Which of these are linear polynomials: $2x + 5$, $x^2 + 1$, $3x - 7$, 4?
4. Evaluate the polynomial $p(x) = 2x + 3$ at $x = 4$.
5. Find the n th term of the pattern 3, 7, 11, 15, ...
6. Complete the table for $y = 2x + 1$ for $x = 0, 1, 2$ and 3, and plot the graph.
7. Write the slope and the y-intercept of the line $y = 3x - 2$.
8. Two lines have slopes 2 and 2. Are they parallel

Chapter : The World of Numbers

1. Classify each as natural, integer, rational or irrational: -3, 0, $\frac{2}{5}$, $\sqrt{7}$, 5.
2. Prove that the square root of 2 is irrational.
3. Write the recurring decimal 0.333... as a fraction.
4. Find two rational numbers between $\frac{1}{3}$ and $\frac{1}{2}$.
5. Express 0.36 as a fraction in lowest terms.
6. State whether the square root of 16 is rational or irrational.
7. Describe how you would represent the square root of 2 on the number line.
8. State whether the decimal expansion of $\frac{7}{8}$ is terminating or non-terminating.

Chapter : I'm Up and Down, and Round and Round

1. The perpendicular drawn from the centre of a circle to a chord _____ the chord.
2. Find the length of a chord of a circle of radius 5 cm that is at a distance of 3 cm from the centre.
3. Complete: the angle subtended by an arc at the centre is _____ the angle it subtends at any point on the remaining part of the circle.
4. Find the measure of the angle in a semicircle.
5. In a cyclic quadrilateral, one angle is 70 degrees. Find its opposite angle.

6. Two chords of a circle are each at a distance of 4 cm from the centre. Are they equal in length?
7. The diameter of a circle is 14 cm. Find its radius and the length of the longest chord.
8. An arc subtends an angle of 100 degrees at the centre. Find the angle it subtends at a point on the remaining part of the circle.

Chapter : Measuring Space: Perimeter and Area

1. Find the perimeter of a rectangle of length 12 cm and breadth 8 cm.
2. Find the area of a triangle of base 10 cm and height 6 cm.
3. Find the area of an equilateral triangle of side 4 cm.
4. Find the area of a triangle with sides 3 cm, 4 cm and 5 cm using Heron's formula.
5. Find the circumference of a circle of radius 7 cm.
6. Find the area of a circle of radius 14 cm.
7. Find the area of a sector of angle 60 degrees in a circle of radius 21 cm.
8. The perimeter of a square is 36 cm. Find its area.

Chapter : Predicting What Comes Next

1. Find the 10th term of the AP 3, 7, 11, ...
2. Find the common difference of the AP 12, 8, 4, ...
3. Which term of the AP 2, 5, 8, ... is 32?
4. Find the sum of the first 10 terms of the AP 1, 3, 5, ...
5. Find the sum of the first 20 natural numbers.
6. Find the n th term of the sequence 5, 9, 13, 17, ...
7. Find the common ratio of the GP 3, 9, 27, ...
8. Find the 5th term of the GP 2, 4, 8, ...
9. Write the next two terms of the GP 80, 40, 20, ...
10. A pattern of dots grows as 1, 4, 9, 16, ... Find the 10th term.

Mixed Revision

1. Find the distance between the points (1, 2) and (4, 6).
2. Find the degree of the polynomial $7x^4 - x + 2$.
3. State whether the square root of 5 is rational or irrational.
4. Evaluate 98^2 using an identity.
5. In a circle, an angle subtended at the centre is 120 degrees. Find the angle at the circumference.
6. Find the area of a triangle with sides 5 cm, 12 cm and 13 cm.
7. Find the probability of getting a prime number when a fair die is rolled once.
8. Find the 12th term of the AP 5, 9, 13, ...

SCIENCE

Q1) Make any one working model of given topics: -

- 1-food health and hygiene
- 2-transport and communication
- 3-Natural farming
- 4-Disaster management
- 5-Waste management
- 6-Resource management

Q2) Revise all the chapters which are coming in monthly test, held in October

Q3) Learn and write atomic no. and electronic configurations of elements from 1 to 20

Q4) Make portfolio

Q5) Take printout and solve these activity sheets: -

S.ST

- Revision of all completed chapters
- Project on the democracy chapter. Paste relevant pictures also
- Complete your written work for all chapters
- Learn questions for pt 2 exam.

ENGLISH

H H.W. to be done in C.W copy

Page 128 Q 1

Page 129. Q III

Page 133. Q let us write

Page 114. Q III

PAGE 141 to 148

Write new words with their meanings

Write five examples of Noun

Pronoun

Adjective

Adverbs

SKT

- 1) मम विद्यालयः' इति विषयम् अधिकृत्य दश वाक्यानि लिखत।
- 2) संस्कृतभाषायाः महत्त्वविषये दश वाक्यानि लिखत।
- 3) सुभाषितानि — पञ्च संस्कृत-सुभाषितानि अर्थसहितं लिखन्तु। (Coloured sheet A4)
- 4) राम, लता , मुनि, नदी शब्दानां रूपाणि लिखत।
- 5) प्रमुखाणां पञ्च संस्कृतकवीनां चित्राणि संकलयित्वा तेषां नामानि प्रसिद्धकाव्यरचनाश्च लिखत। (Coloured sheet A4 size)
- 6) प्रत्ययाः — क्त्वा, तुमुन् तथा ल्यप् प्रत्ययानां पञ्च-पञ्च उदाहरणानि लिखन्तु।
- 7) पोर्टफोलियो

VOCATIONAL EDUCATION

Build a skill-based project for Kaushal mela

AI

Solve your PT 2 paper in your notebook for the subject AI

ART EDUCATION

All the students make one painting on A4 Size or A3size sheet by using any medium of colours like charcoal ,sketching, water colour, acrylic colours oil pastel etc. for art exhibition

OR

Make one best out of waste with the help of waste material.

OR

one usefull craft with the help of waste material for art exhibition.