

पीएम श्री केंद्रीय विद्यालय, अनंतपुर

शरदकालीन अवकाश गृहकार्य - हिंदी

शैक्षणिक सत्र 2026-27 | कक्षा 6 से 10 | अवधि: 10 दिवस

सामान्य निर्देश

1. सभी विद्यार्थी गृहकार्य हिंदी की अलग कॉपी में साफ-सुथरी लिखावट में करें।
2. प्रतिदिन निर्धारित कार्य पूरा करें। प्रत्येक कार्य पर दिनांक लिखें।
3. रचनात्मक कार्यों में मौलिक विचारों, शुद्ध वर्तनी और उचित विराम-चिह्नों का प्रयोग करें।
4. जहाँ चित्र, पोस्टर या समाचार-कतरन लगाने को कहा गया है, वहाँ स्वयं सामग्री संकलित करें।
5. कक्षा 10 के विद्यार्थी बोर्ड परीक्षा की तैयारी को ध्यान में रखते हुए उत्तर लेखन का अभ्यास भी करें।

कक्षा 6 - हिंदी शरदकालीन गृहकार्य

कक्षा 6 - हिंदी शरदकालीन गृहकार्य

अवधि: 10 दिवस

संज्ञा, सर्वनाम, विशेषण और क्रिया की परिभाषा लिखकर प्रत्येक के पाँच उदाहरण दीजिए।

‘मेरा विद्यालय’ अथवा ‘मेरा प्रिय त्योहार’ विषय पर 100-120 शब्दों का अनुच्छेद लिखिए।

अपने परिवार के किसी सदस्य का साक्षात्कार लेकर पाँच प्रश्न और उनके उत्तर लिखिए।

‘स्वच्छ भारत, स्वस्थ भारत’ विषय पर एक आकर्षक पोस्टर बनाइए तथा पाँच नारे लिखिए।

विशेष गतिविधि: प्रतिदिन हिंदी की पुस्तक से 10 नए शब्द चुनकर उनके अर्थ लिखिए।
उनमें से पाँच शब्दों के वाक्य बनाइए।

कक्षा 7 - हिंदी शरदकालीन गृहकार्य

अवधि: 10 दिवस

किसी प्रेरणादायक व्यक्ति के जीवन पर 120-150 शब्दों का अनुच्छेद लिखिए।

संज्ञा, सर्वनाम, विशेषण, क्रिया और क्रियाविशेषण के पाँच-पाँच उदाहरण लिखिए।

पर्यायवाची, विलोम और अनेक शब्दों के लिए एक शब्द के पाँच-पाँच उदाहरण लिखिए।

‘समय का सदुपयोग’ विषय पर 120-150 शब्दों का अनुच्छेद लिखिए।

अपने मित्र को शरदकालीन अवकाश के अनुभव बताते हुए एक अनौपचारिक पत्र लिखिए।

किसी हिंदी समाचार-पत्र से एक समाचार चुनकर उसका शीर्षक, मुख्य तथ्य और सारांश लिखिए।

‘पर्यावरण संरक्षण’ विषय पर पोस्टर बनाइए और पर्यावरण बचाने के पाँच उपाय लिखिए।

विशेष गतिविधि: किसी एक हिंदी कहानी का पठन कीजिए और उसके प्रमुख पात्रों, घटनाओं तथा शिक्षा का विवरण लिखिए।

कक्षा 8 - हिंदी शरदकालीन गृहकार्य

अवधि: 10 दिवस

किसी एक पाठ के प्रमुख पात्र का चरित्र-चित्रण 120-150 शब्दों में कीजिए।

संधि, समास और उपसर्ग-प्रत्यय की परिभाषाएँ लिखकर प्रत्येक के पाँच उदाहरण दीजिए।

मुहावरों के दस उदाहरण अर्थ सहित लिखिए और उनमें से पाँच का वाक्यों में प्रयोग कीजिए।

‘जल संरक्षण: हमारी जिम्मेदारी’ विषय पर 150-180 शब्दों का अनुच्छेद लिखिए।

अपने क्षेत्र की किसी समस्या के समाधान का सुझाव देते हुए प्रधानाचार्य को औपचारिक पत्र लिखिए।

‘मोबाइल फोन: लाभ और हानि’ विषय पर 150 शब्दों का लेख लिखिए।

किसी हिंदी समाचार-पत्र का संपादकीय या विचारपरक लेख पढ़कर उसका सारांश तथा अपना मत लिखिए।

‘एक भारत, श्रेष्ठ भारत’ विषय पर चित्र सहित परियोजना तैयार कीजिए। इसमें भाषा, वेशभूषा, खानपान और सांस्कृतिक विविधता का वर्णन कीजिए।

विशेष गतिविधि: एक सप्ताह तक पढ़े गए हिंदी समाचारों में से पाँच समाचारों की शीर्षक सहित सूची बनाइए और प्रत्येक का दो-तीन वाक्यों में सार लिखिए।

कक्षा 9 - हिंदी शरदकालीन गृहकार्य

अवधि: 10 दिवस

उपसर्ग, प्रत्यय, समास और अर्थ की दृष्टि से वाक्य-भेद का अभ्यास कीजिए। प्रत्येक विषय के पाँच उदाहरण लिखिए।

‘विद्यार्थी जीवन में अनुशासन का महत्व’ विषय पर 180-200 शब्दों का अनुच्छेद लिखिए।

विद्यालय में पुस्तकालय की सुविधाएँ बढ़ाने हेतु प्रधानाचार्य को औपचारिक पत्र लिखिए।

किसी समसामयिक सामाजिक विषय पर 150-200 शब्दों में अपने विचार लिखिए। तथ्यों और उदाहरणों का प्रयोग कीजिए।

किसी अपठित गद्यांश का चयन कर उस पर पाँच प्रश्न बनाइए तथा उनके उत्तर लिखिए।

‘डिजिटल शिक्षा: अवसर और चुनौतियाँ’ विषय पर एक परियोजना तैयार कीजिए। इसमें भूमिका, लाभ, चुनौतियाँ और निष्कर्ष शामिल करें।

विशेष गतिविधि: किसी साहित्यकार का संक्षिप्त जीवन-परिचय लिखिए तथा उनकी एक प्रसिद्ध रचना का उल्लेख कीजिए।

कक्षा 10 - हिंदी शरदकालीन गृहकार्य

अवधि: 10 दिवस

दिवस	गृहकार्य
1	दिवस 'सूरदास के पद' के आधार पर गोपियों के भक्ति-भाव का वर्णन कीजिए और चयनित पदों का भावार्थ लिखिए।
2	दिवस 'राम-लक्ष्मण-परशुराम संवाद' में लक्ष्मण और परशुराम के स्वभाव की विशेषताओं की तुलना कीजिए।
3	दिवस पाठ्यक्रम में निर्धारित किसी एक गद्य-पाठ का सारांश तथा उसका संदेश लिखिए।
4	दिवस वाच्य की परिभाषा लिखिए। कर्तृवाच्य, कर्मवाच्य और भाववाच्य के पाँच-पाँच उदाहरण लिखकर वाच्य परिवर्तन का अभ्यास कीजिए।
5	दिवस रचना के आधार पर वाक्य-रूपांतरण तथा पदबंध के अभ्यास हेतु दस प्रश्न हल कीजिए।
6	दिवस 'सोशल मीडिया का विद्यार्थियों पर प्रभाव' विषय पर 200-250 शब्दों का लेख लिखिए।
7	दिवस किसी सार्वजनिक समस्या की ओर ध्यान आकर्षित करते हुए संबंधित अधिकारी को औपचारिक पत्र लिखिए।
8	दिवस विद्यालय में आयोजित होने वाली वाद-विवाद प्रतियोगिता के लिए 'ऑनलाइन शिक्षा बनाम कक्षा शिक्षण' विषय पर पक्ष या विपक्ष में तर्क तैयार कीजिए।
9	दिवस एक अपठित गद्यांश और एक अपठित पद्यांश पढ़कर प्रत्येक पर पाँच-पाँच प्रश्नों के उत्तर लिखिए।
10	दिवस अपने निर्धारित पाठ्यक्रम के आधार पर 20 अंकों का स्वनिर्मित हिंदी अभ्यास-पत्र तैयार कीजिए। इसमें अपठित बोध, व्याकरण, पाठ्यपुस्तक और लेखन के प्रश्न शामिल कीजिए।

विशेष गतिविधि: बोर्ड परीक्षा की तैयारी के लिए प्रतिदिन कम-से-कम 20 मिनट लेखन अभ्यास कीजिए। उत्तर लिखते समय प्रश्न की माँग, शब्द-सीमा, भाषा की शुद्धता और प्रस्तुति पर ध्यान दीजिए।

अभिभावकों एवं विद्यार्थियों के लिए निर्देश

1. गृहकार्य विद्यार्थी स्वयं करें। अभिभावक केवल आवश्यक मार्गदर्शन दें।
2. सभी लिखित कार्य निर्धारित समय में पूरे किए जाएँ।
3. परियोजनाओं में मौलिकता, विषय-वस्तु, साफ-सफाई और रचनात्मकता का ध्यान रखें।
4. अवकाश के दौरान प्रतिदिन कम-से-कम 15-20 मिनट हिंदी साहित्य या समाचार-पत्र पढ़ें।
5. विद्यालय खुलने पर गृहकार्य हिंदी शिक्षक को प्रस्तुत करें।

Autumn Break Holiday Homework.

Class : 6

Subject : తెలుగు

శ్రవణం (Listening) :

1. పోతన జీవిత విశేషాలను గురించి తెలుసుకొని వ్రాయండి.

భాషణం (Speaking) :

1. మి కుటుంబ సభ్యులతో పెళ్ళిన విహారయాత్ర అనుభూతులను వ్రాయండి.

పఠనం (Reading) :

1. వార్తాపత్రికలో వచ్చిన దసరా పండుగ ప్రాముఖ్యతను వ్రాయండి.

రచనం (Writing) :

1. వేర్వేరు (3 times)
2. గుణింతపు గుర్తులు (3 times)
3. ఓర్పులు (3 times)

వి.స్రవంతి

Sub Teacher

 13/10/2020
Principal

Class 6

READING:

Read articles on current events and summarize them (at least 3). (H.W-N.B)

WRITING:

Write a short story and a poem on a theme of NATURE. (H.W-N.B)

GRAMMAR AND VOCABULARY:

Write 30 new words with their meanings and use them in sentences. (H.W-N.B)

CREATIVE PROJECT:

Make a collage of your favorite story from textbook. (H.W-N.B)

ART INTEGRATED PROJECT:

Draw a tree diagram of Parts Of Speech. (A4)

Class 7

READING:

Read an article from the newspaper and analyze the author's perspective. (H.W-N.B)

WRITING:

Write a narrative essay on a personnel experience of a family trip. (H.W-N.B)

GRAMMAR AND VOCABULARY:

Collect new vocabulary of 30 words and write their 'parts of speech' and 'meanings'. (H.W-N.B)

CREATIVE PROJECT:

Create an autumn vocabulary list with definitions and usage examples. (Minimum 30) (H.W-N.B)

ART INTEGRATED PROJECT:

Design a theme for a favorite novel. (A4)

Class 8

READING:

Read and analyze a poem and a short story, exploring themes and literary devices. (H.W-N.B)

WRITING:

Write a narrative essay on a personnel experience of celebration of Dussehra festival. (H.W-N.B)

GRAMMAR AND VOCABULARY:

Find out at least 30 new words from a newspaper article, write their meaning and usage. (H.W-N.B)

CREATIVE PROJECT:

Develop a character sketch of your favorite character from the textbook. (H.W-N.B)

ART INTEGRATED PROJECT:

Collect and paste the images of VERBS (action words) (at least 20) (A4)

Class 9

READING:

Select a prose topic from your syllabus and write a critical analysis or review on it. (H.W-N.B)

WRITING:

Imagine you are a journalist; Write an article based on the current technology. (H.W-N.B)

GRAMMAR AND VOCABULARY:

Write 30 examples for REPORTED SPEECH. (H.W-N.B)

CREATIVE PROJECT:

Create a short story or script for a film or play. (H.W-N.B)

ART INTEGRATED PROJECT:

Illustrate your favorite poem with drawings and paintings. (A4)

Class 10

READING:

Read a novel/book prescribed in your syllabus and write a critical analysis or review from the point of author. (H.W-N.B)

WRITING:

Write an argumentative essay on the current issue. (e.g...Technology, terrorism, AI etc...) (H.W-N.B)

GRAMMAR AND VOCABULARY:

Write 30 examples for REPORTED SPEECH. (H.W-N.B)

CREATIVE PROJECT:

Create an interesting project on LITERATURE. (H.W-N.B)

ART INTEGRATED PROJECT:

Make a journal on A LETTER TO MY FUTURE SELF. (A4)


13/10/26
Subject Teacher


PRINCIPAL

PM SHRI KENDRIYA VIDYALAYA ANANTAPUR

AUTUMN BREAK HOMEWORK 2026-27 CLASS VI - X

1. Class 6 – ऋतवः (Seasons) or मम परिवारः (My Family)

* Sanskrit Content: Write the names of the six seasons in Sanskrit (वसन्तऋतुः, ग्रीष्मऋतुः, वर्षाऋतुः, शरदृतुः, हेमन्तऋतुः, शिशिरऋतुः) or family member titles (माता, पिता, भ्राता, भगिनी). Include a simple shloka like वसन्ते कुसुमाकरः शोभते.

* Art Integration:

- Make a rotating wheel of seasons (ऋतुचक्रः) using chart paper.
- Draw or paint seasonal changes using traditional Warli or Madhubani art styles.

2. Class 7 – पशुपक्षिणः (Animals and Birds) or वृक्षारोपणम् (Tree Plantation)

* Sanskrit Content: List common animals and birds with descriptions in Sanskrit (सिंहः वनस्य राजा अस्ति, खगाः आकाशे उत्पतन्ति). Add sub-verses on the importance of trees (वृक्षः नैसर्गिको मित्रम्).

* Art Integration:

- Create a clay model or paper collage of a forest or garden with Sanskrit labels.
- Design a poster campaign for saving trees with slogans written purely in Sanskrit.

3. Class 8 – स्वावलम्बनम् (Self-Reliance) or भारतीयसंस्कृतिः (Indian Culture)

* Sanskrit Content: Summarize chapters from your textbook (e.g., स्वावलम्बनम्) or write short paragraphs on traditional Indian festivals (दीपावली, रक्षाबन्धनम्) with matching shlokas.

* Art Integration:

- Build a 3D pop-up card depicting a festival scene.
- Write a short 3-line Sanskrit skit (नाटकम्) and perform/record it with classmates.

4. Classes 9 & 10 – Partner State Project (e.g., Sikkim, Kerala, or Ladakh) in Sanskrit

* Sanskrit Content: CBSE pairs states for Art Integrated Projects (e.g., Delhi paired with Sikkim or Kerala). Write brief notes in Sanskrit about the partner state's geography, main festivals (सिक्किम राज्यस्य सांस्कृतिकाः उत्सवाः), and traditional food (प्रमुखः आहारः च).

* Art Integration:

- Create an illustrated project file or digital scroll featuring map work, sketches of regional attire, and local art motifs labeled in Sanskrit.
- Translate folk songs or local proverbs into Sanskrit and present them with traditional border designs.

राधाकृष्णाचार्य

SUB TEACHER

PRINCIPAL

AUTUMN BREAK HOMEWORK

MATHEMATICS CLASSES VI TO X

Session 2026–27 | Work for 10 days

10-Day Plan

Days	Work
Days 1 to 5	Part A: one practice set each day. On Day 1, also choose your project idea and collect materials.
Days 6 and 7	Part B: Art Integrated Project.
Days 8 and 9	Part C: Subject Enrichment Activities (Classes VI to VIII) or Mathematics Portfolio (Classes IX and X).
Day 10	Part D: & Part - E Other Work. Check everything and make one file for submission.

Instructions

- Spend about 45 to 60 minutes a day. Do not leave the work for the last day.
- Do Part A in a separate Maths Homework Notebook and show all steps.
- All work must be your own. Use waste or recycled material and collect only fallen leaves.
- Write your name, class and section on every sheet and submit one file on the first working day after the break.

Salit

Subject Teacher

[Signature] 13/10/2024

Principal

Part A: Practice Sets (Days 1 to 5, in Maths Homework Notebook)

Set 1: Whole Numbers

1. Write 5,06,308 in words and write the place value of the digit 6 in it.
2. Find: $4,56,000 + 78,450 - 1,25,300$.
3. Write the successor of 99,999 and the predecessor of 2,00,000.

Set 2: Factors and Multiples

1. Write all the factors of 36.
2. Find the HCF of 24 and 36 using prime factorisation.
3. Two bells ring every 12 minutes and every 18 minutes. If they ring together at 8:00 AM, at what time will they next ring together?

Set 3: Fractions

1. Add: $\frac{3}{4} + \frac{5}{6}$.
2. Subtract: $\frac{7}{8} - \frac{1}{3}$.
3. Arrange in ascending order: $\frac{2}{3}$, $\frac{3}{5}$, $\frac{5}{6}$.

Set 4: Basic Geometry and Symmetry

1. Name the type of each angle: 35° , 90° , 120° , 180° .
2. Find the complement and the supplement of 62° .
3. Write the number of lines of symmetry of: (a) an equilateral triangle (b) a square (c) a rectangle that is not a square (d) a circle.

Set 5: Perimeter and Area

1. A rectangle has length 15 cm and breadth 8 cm. Find its perimeter and area.
2. A square has a side of 12 m. Find its perimeter and area.
3. The perimeter of a square garden is 60 m. Find the length of its side and its area.

Part B: Art Integrated Project: Autumn Mandala: Symmetry in Art

Materials: A4 sheet, compass, ruler, protractor, colours, 3 fallen leaves (collect only fallen leaves) or tracing paper.

1. Draw a circle of radius 8 cm. Using a protractor, divide it into 8 equal sectors of 45° each.
2. Draw a pattern (triangles, petals, leaf shapes) in one sector and repeat it in all sectors. Colour it in autumn colours.
3. On a second page, trace 3 fallen leaves and draw the line of symmetry of each.

Maths to show:

- The number of lines of symmetry of your mandala, the smallest angle through which it can be turned to look the same, and what fraction of a full turn that angle is (simplest form).
- Names of 5 shapes used in your design and the number of lines of symmetry of each leaf.

Part C: Subject Enrichment Activities

Activity 1: Sieve of Eratosthenes. Write 1 to 100 in a 10×10 grid. Cross out 1. Circle 2, 3, 5 and 7 and cross out all their other multiples. Colour the numbers left (primes), count them and list the twin primes (primes that differ by 2).

Activity 2: Magic Square. Fill a 3×3 grid with the numbers 1 to 9, each used once, so that every row, column and diagonal has the same sum. Find the sum. Then add 2 to every number and check again.

Part D: Other Work

- **Daily mental maths (5 minutes):** Learn the tables of 11 to 20.
- **Mathematician profile:** Write 8 to 10 lines on Aryabhata.
- **Riddles:** Make 3 number riddles with answers for your classmates.

Part A: Practice Sets (Days 1 to 5, in Maths Homework Notebook)

Set 1: Integers

1. Evaluate: $(-12) \times 5 + 18 \div (-3)$.
2. Evaluate: $(-48) \div (-6) - (-7) \times 3$.
3. At noon the temperature was 8°C . It fell by 3°C every hour for 5 hours. Find the temperature at 5 PM.

Set 2: Simple Equations

1. Solve: $3x - 7 = 11$.
2. Solve: $5(x + 2) = 3x + 16$.
3. Twice a number increased by 9 gives 31. Find the number.

Set 3: Triangles and their Properties

1. The angles of a triangle are in the ratio 2 : 3 : 4. Find the three angles.
2. The exterior angle of a triangle is 110° and one of its interior opposite angles is 50° . Find the other interior opposite angle.
3. Can a triangle have sides of 5 cm, 7 cm and 13 cm? Give a reason.

Set 4: Ratio, Percentage and Profit–Loss

1. Divide ₹ 360 between two friends in the ratio 4 : 5.
2. Convert $\frac{7}{20}$ into a percentage and find 15% of 240.
3. A shopkeeper buys a bag for ₹ 400 and sells it for ₹ 460. Find the profit percentage.

Set 5: Perimeter and Area

1. Find the area of a parallelogram with base 12 cm and height 7 cm.
2. Find the area of a triangle with base 14 cm and height 9 cm.
3. Find the circumference and the area of a circle of radius 7 cm. (Take $\pi = \frac{22}{7}$.)

Part B: Art Integrated Project: Patchwork Quilt: Tessellation, Fractions and Percentages

Materials: Chart paper or A3 sheet, pencil, ruler, set square, colours or coloured paper, glue, scissors.

1. Draw a $20\text{ cm} \times 20\text{ cm}$ square and divide it into $4\text{ cm} \times 4\text{ cm}$ squares (25 squares). Draw one diagonal in each square to get 50 triangles.
2. Colour the triangles with 4 or 5 colours to make a pattern inspired by patchwork quilts or block prints, with no gaps.
3. On a separate sheet, show with cut-outs that 6 equilateral triangles, 4 squares or 3 regular hexagons fit around a point.

Maths to show:

- A table with: colour, number of triangles, fraction of the quilt (simplest form) and percentage. The totals must be 50 triangles and 100%.
- The perimeter and area of the quilt, and the area of one triangle ($\frac{1}{2} \times \text{base} \times \text{height}$). Check that $50 \times \text{area of one triangle} = \text{area of the quilt}$.
- The angle check around a point: $6 \times 60^{\circ}$, $4 \times 90^{\circ}$ and $3 \times 120^{\circ}$.

Part C: Subject Enrichment Activities

Activity 1: Tear and Join. Draw an acute, a right and an obtuse triangle on coloured paper. Tear the three corners of each and join them on a straight line. Measure the angles in a table and show that the sum is 180° .

Activity 2: Integer Duel. Make 20 cards (-10 to -1 and 1 to 10). With a partner, pick 2 cards each and add them; the greater sum wins. Play 10 rounds, record them in a table and write 3 observations.

Part D: Other Work

- **Daily mental maths (5 minutes):** Revise tables up to 20 and the squares of 1 to 20.
- **Mathematician profile:** Write 8 to 10 lines on Brahmagupta.
- **Be the teacher:** Make 5 word problems of your own and solve them.

Part A: Practice Sets (Days 1 to 5, in Maths Homework Notebook)

Set 1: Linear Equations in One Variable

1. Solve: $(3x - 2)/4 = (x + 6)/2$.
2. Solve: $2(x - 3) + 5 = 3(x + 1) - 8$.
3. The length of a rectangle is 5 cm more than twice its breadth. If its perimeter is 52 cm, find its length and breadth.

Set 2: Understanding Quadrilaterals

1. Find the sum of the interior angles of a hexagon. Also find each interior angle of a regular hexagon.
2. Three angles of a quadrilateral are 85° , 95° and 110° . Find the fourth angle.
3. Each exterior angle of a regular polygon is 40° . Find the number of its sides.

Set 3: Squares and Square Roots

1. Check whether 1,764 is a perfect square. If it is, find its square root.
2. Find the square root of 7,056 by prime factorisation.
3. Find the smallest number by which 180 must be multiplied to make it a perfect square.

Set 4: Exponents

1. Simplify: $2^5 \times 2^3 \div 2^4$.
2. Write 0.00045 in standard (scientific) form.
3. Evaluate: (a) $(3/4)^{-2}$ (b) $7^0 \times 2^{-3}$.

Set 5: Algebraic Expressions and Factorisation

1. Multiply: $(2x + 3)(x - 4)$.
2. Using the identity $(a + b)^2 = a^2 + 2ab + b^2$, find the value of 103^2 .
3. Factorise: (a) $x^2 - 49$ (b) $4a^2b - 6ab^2$.

Part B: Art Integrated Project: The Spiral of Square Roots (Wheel of Theodorus)

Materials: Plain A4 sheet, sharp pencil, ruler, set square, colours.

1. Mark a point O near the centre and draw $OA = 2$ cm. At A, draw AB perpendicular to OA with $AB = 2$ cm and join OB. Then $OB = 2\sqrt{2}$ cm.
2. At B, draw BC perpendicular to OB with $BC = 2$ cm and join OC. Continue in the same way until you have 16 triangles (do not draw more than 16).
3. Number the triangles 1 to 16 and colour them in autumn shades from yellow to deep red.

Maths to show:

- A table for all 16 triangles: triangle number n , the exact hypotenuse $2\sqrt{n+1}$ cm and the hypotenuse measured with a ruler.
- Verification of Pythagoras theorem for triangles 1, 2 and 3.
- Which hypotenuses are whole numbers of cm, and why?

Part C: Subject Enrichment Activities

Activity 1: Pythagorean Triplets. For $m = 2, 3, 4, 5$ and 6, make a table of $2m$, $m^2 - 1$ and $m^2 + 1$ and verify that $(2m)^2 + (m^2 - 1)^2 = (m^2 + 1)^2$.

Activity 2: Ramanujan's Number. Verify that $1729 = 1^3 + 12^3 = 9^3 + 10^3$, write 4 to 5 lines about it, and show that the sum of the first n odd numbers is n^2 for $n = 1$ to 10.

Part D: Other Work

- **Daily mental maths (5 minutes):** Revise the squares of 1 to 30 and the cubes of 1 to 15.
- **Mathematician profile:** Write 8 to 10 lines on Srinivasa Ramanujan.
- **Be the teacher:** Make 5 problems of your own (linear equations, exponents, squares or cubes) and solve them.

Part A: Practice Sets (Days 1 to 5, in Maths Homework Notebook)

Set 1: Number Systems: Decimals and Roots

- Express $0.777\ldots$ and $0.363636\ldots$ in the form p/q , where p and q are integers and $q \neq 0$.
- Rationalise the denominator of $1/(\sqrt{5} + \sqrt{2})$.
- Evaluate: (a) $64^{2/3}$ (b) $81^{-1/2}$.

Set 2: Polynomials

- If $p(x) = 2x^3 - 3x^2 + x - 5$, find $p(2)$.
- Check whether $(x - 1)$ is a factor of $x^3 - 6x^2 + 11x - 6$.
- Find the remainder when $x^3 + 3x^2 + 3x + 1$ is divided by $(x + 2)$.

Set 3: Algebraic Identities

- Expand: $(2x + 3y)^2$.
- Factorise: (a) $x^2 + 5x + 6$ (b) $x^3 - 8$.
- Using a suitable identity, find 99×101 without direct multiplication.

Set 4: Coordinate Geometry

- In which quadrant does each point lie: $(-3, 4)$, $(5, -2)$, $(-6, -1)$, $(2, 7)$?
- Write the coordinates of (a) the point on the x -axis that is 4 units to the left of the origin, (b) the point on the y -axis that is 3 units below the origin.
- Three vertices of a rectangle are $(1, 1)$, $(5, 1)$ and $(5, 3)$. Find the fourth vertex and the area of the rectangle.

Set 5: Linear Equations in Two Variables

- Write $3x + 2y = 12$ in the form $ax + by + c = 0$ and state the values of a , b and c .
- Find any three solutions of the equation $x + 2y = 6$.
- If $x = 2$, $y = 1$ is a solution of $4x + ky = 11$, find the value of k .

Part B: Art Integrated Project: Art on the Cartesian Plane

Materials: Graph paper (A3 preferred), pencil, ruler, colours.

- Draw the axes with 1 cm = 1 unit, from -10 to 10 . Label the origin and the four quadrants.
- Draw a figure symmetrical about the y -axis (autumn leaf, butterfly, kite, rangoli) by plotting at least 24 points (at least 4 in each quadrant) and joining them in order.
- Include 3 straight lines in the design that are graphs of linear equations (for example $y = x$ or $x + y = 4$). Label each with its equation.

Maths to show:

- A table with: Point, Coordinates, Quadrant or axis. For every point (x, y) on one side, also write its mirror image $(-x, y)$.
- Each equation in the form $ax + by + c = 0$ with a table of 3 solutions.
- The area of one triangle or rectangle in your figure, found from coordinates.

Part C: Mathematics Portfolio

Make a neat file (name and class on every page) and include your Part B project.

- Cover page and index:** Title, your name, class, section, roll number and an index.
- Two mind-maps:** One A4 page each: Number Systems and Polynomials, with examples.
- Error log:** 3 mistakes: the mistake, the correct solution and how to avoid it.
- My Best 5:** 5 challenging questions from different chapters, solved step by step.
- Maths in the real world:** One page on a real-life use of coordinate geometry or linear equations.
- Self-reflection:** 6 to 8 lines on what you enjoyed, what was difficult and your goals.

Part D: Other Work

- Daily revision (10 minutes):** Revise the laws of exponents and algebraic identities.
- Mathematician profile:** Write 8 to 10 lines on Euclid.
- Number trick:** Think of a number, double it, add 10, halve it, subtract the number. Prove the result using algebra.

Part E: Other Work- Write Some practical activity in practical notebook.

Part A: Practice Sets (Days 1 to 5, in Maths Homework Notebook)

Set 1: Polynomials

1. Find the zeroes of $x^2 - 5x + 6$ and verify the relationship between the zeroes and the coefficients.
2. Form a quadratic polynomial whose sum and product of zeroes are 3 and -10 respectively.
3. If α and β are the zeroes of $2x^2 - 7x + 3$, find $\alpha + \beta$ and $\alpha\beta$.

Set 2: Pair of Linear Equations in Two Variables

1. Solve: $x + y = 7$ and $x - y = 3$.
2. Solve by the elimination method: $2x + 3y = 13$ and $5x - 2y = 4$.
3. For what value of k does the pair $3x + 2y = 5$ and $6x + ky = 10$ have infinitely many solutions?

Set 3: Quadratic Equations

1. Solve by factorisation: $x^2 - 7x + 12 = 0$.
2. Find the discriminant of $2x^2 - 4x + 3 = 0$ and state the nature of its roots.
3. The product of two consecutive positive integers is 306. Find the integers.

Set 4: Arithmetic Progressions

1. Find the 10th term of the AP 3, 8, 13, ...
2. Find the sum of the first 20 terms of the AP 2, 5, 8, ...
3. Which term of the AP 7, 11, 15, ... is 91?

Set 5: Introduction to Trigonometry

1. If $\sin A = 3/5$ and A is acute, find $\cos A$ and $\tan A$.
2. Evaluate: $\sin 30^\circ \cos 60^\circ + \cos 30^\circ \sin 60^\circ$.
3. Prove that $(\sin \theta + \cos \theta)^2 + (\sin \theta - \cos \theta)^2 = 2$.

Part B: Art Integrated Project: Parabola Art: Arches, Bridges and Fountains

Materials: Graph paper (A3 preferred), pencil, ruler, coloured pencils.

1. Choose a theme: an arch bridge, fountain, gateway or rainbow.
2. On graph paper, draw smooth curves of (i) $y = x^2 - 4$, (ii) $y = 9 - x^2$ and (iii) $y = x^2 - 6x + 8$. Choose suitable x -values for the tables.
3. Use the parabolas to build your picture and colour it.

Maths to show:

- For each polynomial: the table of values, the vertex and the zeroes read from the graph.
- Verification that the sum of zeroes $= -b/a$ and the product of zeroes $= c/a$.
- The quadratic polynomial whose zeroes are 1 and 5.

Part C: Mathematics Portfolio

Make a neat file (name and class on every page) and include your Part B project.

- **Cover page and index:** Title, your name, class, section, roll number and an index.
- **Two mind-maps:** One A4 page each: Real Numbers and Polynomials; Linear and Quadratic Equations.
- **Error log:** 3 mistakes: the mistake, the correct solution and how to avoid it.
- **My Best 5:** 5 challenging questions (one word problem, one case-based), solved step by step.
- **Maths in the real world:** One page showing how an AP or a quadratic equation models a real situation.
- **Formula sheet:** One page of formulas from the chapters covered so far.
- **Self-reflection:** 6 to 8 lines on what you enjoyed, what was difficult and your goals.

Part D: Other Work

- **Daily revision (10 minutes):** Write the trigonometric ratio table for 0° , 30° , 45° , 60° and 90° from memory.
- **Mathematician profile:** Write 8 to 10 lines on Bhaskaracharya and his book Lilavati.
- **Gauss's trick:** Using the AP formula, find $1 + 2 + \dots + 100$.

Part E: Other Work- Write Some practical activity in practical notebook.

Science: Autumn Break Homework

Class 6 Science

1. Listening Skill: Weather & Kitchen Tracking

- **Temperature Log:** Check the daily weather forecast. Record the **Max and Min temperature** of your place for **5 days** in a table in your HW book.
- **Separation Methods (Ch 9):** Listen to your elders in the kitchen. Find **3 separation techniques** they use (e.g., handpicking, winnowing, straining). Cut and **paste pictures** of these methods from old books/newspapers into your HW book.

2. Speaking Skill: Eco-Elder Interview

- Interview a grandparent or elder about changes in temperature (**Ch 7**), water availability (**Ch 8 & 11**), and the night sky (**Ch 12**) since their childhood.
- Share **3 surprising things** you learnt in HW book.

3. Reading Skill: Scientist Biography

- Read a short biography of **Anna Mani** (The Weather Woman of India).
- Write a **short summary paragraph** about her life and scientific work in your HW book.

4. Notebook Writing Work

1. **Half-Yearly Paper:** Solve and write complete answers to your recent Half-Yearly Question Paper.
2. **Chapter 7 Exercises:** Complete all back-text questions and answers for **Chapter 7 (Temperature and its Measurement)**.
3. **Practical Work:** Complete your assigned practical work.

Class 7 Science

Listening: Listen to a podcast or news report about **unseasonal heat waves and global warming**. List 3 harmful impacts of this extreme heat on Earth.

Speaking: Grow a plant from a seed. Take advice from elders on its requirements, and give a **2-minute talk** to your family about its **Do's and Don'ts**. List them in HW book

Reading: Collect and paste pictures of **groundwater replenishment methods** in your HW book. Write **5 slogans** on water conservation.

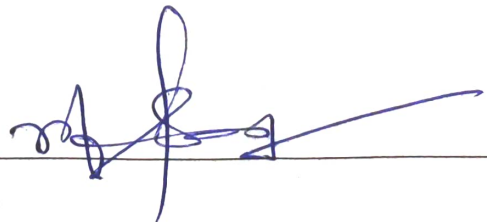
Writing: Complete these tasks in your Science HW book:

1. Solve the full **Half-Yearly Question Paper**.
2. Write answers to all **text book back-questions** (Chapter 7).
3. Complete all **assigned practical lab activities**.

Class 8 Science

1. LISTENING TASK: "Environmental Changes"

- **Task:** Interview an elder about how local weather, air quality (**Ch 7-8**), water purity (**Ch 9**), and seasons (**Ch 12-13**) have changed over the decades.
- **Submission:** Write a **5-bullet-point summary** of their answers.



2. SPEAKING TASK:

- **Task:** Give a 3-minute speech to your family on the topic:
How ancient civilisations used shadows/skies to track time (**Ch 11**).
- List them in HW book

3. READING TASK:

Read **Chapter 8** thoroughly.

Submission: Identify and **list out any topic** from Chapter 8 that you found most interesting, and write a **explanation** of why it caught your attention.

4. WRITING TASK:

Task 1 (Exam Correction): Solve and write the correct answers for all questions in your **Half-Yearly Exam Paper**.

Task 2 (Practical Work): Complete all **assigned practical lab activities**.

Task 3 (Back-Text Exercises): Solve all textbook back-exercise questions for **Chapters 7** in your HW notebook.

Class 9 Science

1. LISTENING TASK

- **Watch & Listen:** Watch a documentary or educational video titled "**Journey Inside an Atom**" online.
- **Write:** Note down a **5-bullet-point summary** of the brief, key concepts you learned about atomic structures directly into your homework book.

2. SPEAKING TASK

- **Activity:** Plant a small sapling or tree in your home garden, balcony pot, or neighborhood during the holidays.
- **Present:** Deliver a 2-minute talk to your family describing the **mode of reproduction** (e.g., vegetative propagation, seeds) you used to plant it, explaining the science behind how it will grow.

3. READING TASK

- **Read:** Read **Chapter 3 (Tissues)** and **Chapter 8 (Journey Inside the Atom)** thoroughly from your *Exploration* textbook.
- **Practice:** While reading, use a pencil to make **brief bullet points directly inside your textbook margins** to serve as your quick-revision study guides.

4. WRITING TASK

1. **PT-2 Question Paper:** Copy down your **entire Periodic Test-2 (PT-2) Question Paper** in black ink, and write the **fully corrected textbook answers** right below each question in blue ink.
2. **Practical Work:** Complete and write down the full write-ups for the given **practical lab experiments** as instructed in class.
3. **Chapter 3 Back Exercise:** Solve and write down all the **back textbook questions** for *Chapter 3 (Tissues)*.

4. **Chapter 8 Back Exercise:** Solve and write down all the **back textbook questions** for *Chapter 8 (Journey Inside the Atom)*

Class 10 Science

Part 1: Written Notebook Submissions

PT-2 Paper: Solve and write complete answers to your recent PT – 2 Question Paper.

CBSE Sample Paper: Solve the latest official **CBSE Sample Question Paper** completely in your homework notebook.

Chapters 12 & 13: Write down and solve all the **End-of-Chapter (Back-Text) Exercises** for Chapter 12 and Chapter 13

Pending Backlog: Complete all incomplete class work, notes, or homework left over.

Part 2: Practical & Sheet Work

1. **Practical File:** Complete all assigned science practical experiments in your lab journal. Draw and label all diagrams using a sharp pencil.
2. **Worksheets:** Answer all revision worksheets and secure them

Part 3: Early-Morning Revision Routine (5:00 AM – 7:00 AM)

- **No Mobile Phones:** Strictly **DO NOT** use your phone in the early morning hours. No watching online lectures or video summaries.
- **Rely on the Textbook:** Read **one full chapter per day** from your NCERT textbook every morning.
- **Active Reading:** If you do not understand a concept, **read the same paragraph multiple times** until it becomes clear. Do not look for an easy way out on a screen.
- **Parent Proof:** Take your parent's signature directly on the textbook chapter heading as proof of completion.

PM SHRI KENDRIYA VIDYALAYA ANANTAPUR
AUTUMN BREAK HOLIDAY HOMEWORK – 2026
Subject: Social Science | Classes VI to X

Class 6:

- ❖ Water cycle and steps on chart or A4
- ❖ Map of my neighbourhood with symbols and scale
- ❖ Fibre to fabric: sample collection chart

Class 7:

- ❖ **Soil and its types:** collect soil from three places, test water absorption and present the results in a table.
- ❖ **Rangoli or tessellation patterns:** use symmetry and geometry to make a design and explain the maths behind it.
- ❖ **Local food chain or food web:** a poster or model of the food web in your area, such as a farm, pond or garden

Class 8

- ❖ Freedom movement timeline chart
- ❖ Microorganisms: useful and harmful, a chart with examples
- ❖ Crop production methods in my region, a model or poster

Class 9

- ❖ project work on sustainable development

Class 10

- ❖ Inter disciplinary project on industrialisation in the modern world chapter 3