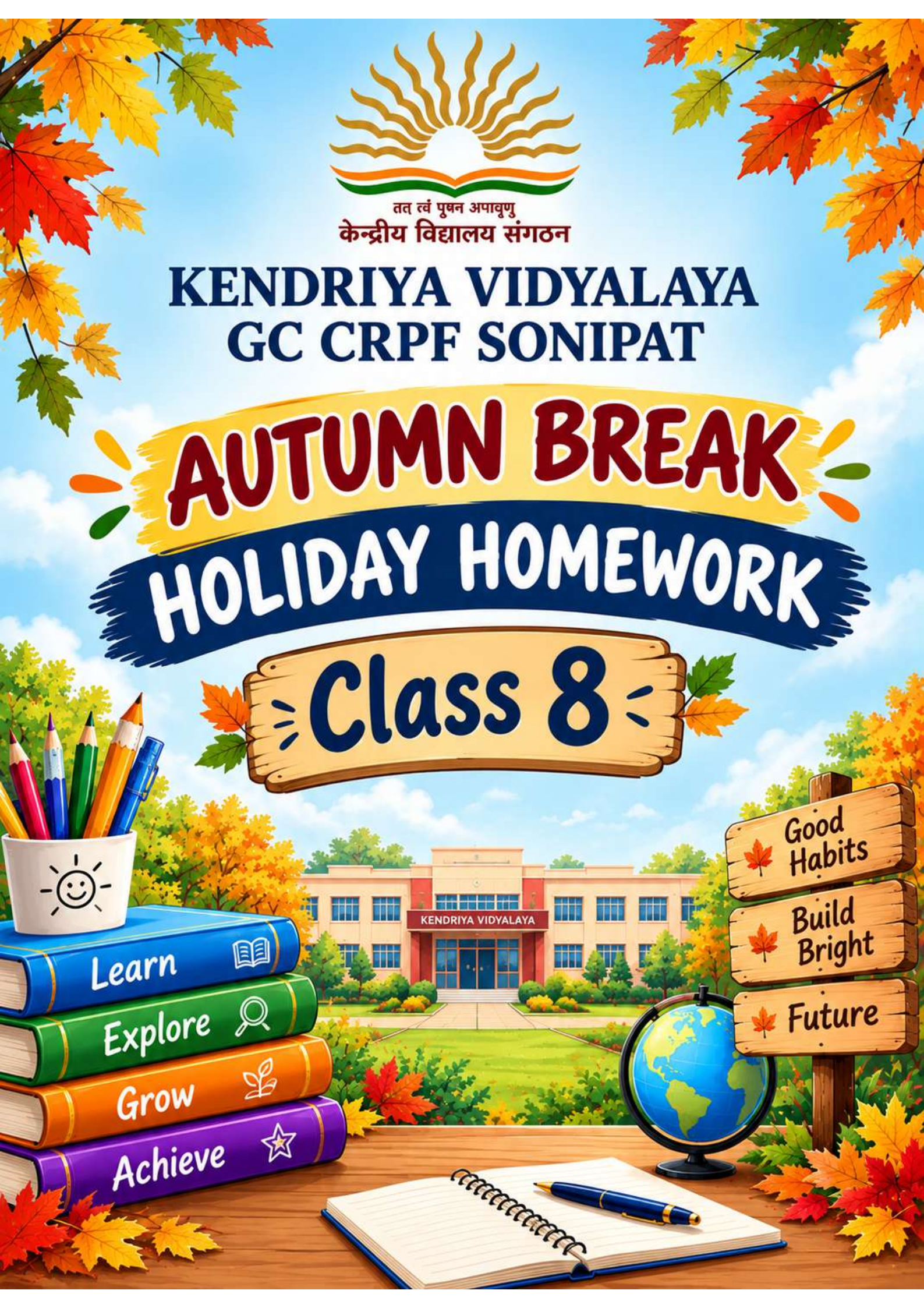

तत त्वं पुषन अपावृणु
केन्द्रीय विद्यालय संगठन
KENDRIYA VIDYALAYA
GC CRPF SONIPAT
AUTUMN BREAK
HOLIDAY HOMEWORK
Class 8
KENDRIYA VIDYALAYA
Learn
Explore
Grow
Achieve
Good Habits
Build Bright
Future

MATHS

. Do all figure out questions of chapter Fraction in disguise in notebook

. Learn and write all important points and formulas used in chapter Fraction in disguise

. Complete learner diary and submit after break

. Learn and write Square and cube from numbers 1 to 10

Chapter: Number Play

1. Find the prime factorisation of 360.
2. Find the HCF of 96 and 144.
3. Find the LCM of 24, 36 and 40.
4. Test whether 1,23,456 is divisible by 8.
5. Test whether 3,456 is divisible by 11.
6. Find the greatest number that divides 245 and 1029, leaving a remainder of 5 in each case.
7. Are 14 and 15 co-prime?
8. Find the smallest number divisible by 6, 8 and 12.

Chapter: We Distribute, Yet Things Multiply

1. Use the distributive property: 45 x 102.
2. Simplify using the distributive property: 25 x 98.
3. Find 999 x 15 using a shortcut.
4. Verify a x (b + c) = a x b + a x c for a = 7, b = 5 and c = 3.
5. Simplify: 68 x 4 + 68 x 6.
6. Use the distributive property: 103 x 97.
7. Find 12 x 101 - 12.
8. Simplify: 84 x 5 + 84 x 5 using a property.

Chapter 7: Proportional Reasoning-1

1. Express the ratio 45 : 60 in its simplest form.
2. Divide Rs 720 in the ratio 3 : 5.
3. If 5 pens cost Rs 75, what do 8 pens cost?
4. Check whether 4, 6, 8 and 12 are in proportion.
5. Find x: 3 : 5 :: x : 20.
6. On a map, 1 cm represents 10 km. Two towns are 4.5 cm apart on the map. Find the actual distance.
7. Divide 90 in the ratio 2 : 3 : 4.
8. The ratio of boys to girls in a class is 4 : 5. If there are 20 boys, how many girls are there?

केन्द्रीय विद्यालय संगठन

HOLIDAY HOMEWORK

SCIENCE – CLASS VIII

Small Steps Big Change

Science · Curiosity · Discovery · Future

NCERT Curiosity | 10 Days | Aligned with NEP 2020

Explore • Observe • Think • Create • Make a Difference

Name: _____

Roll No.: _____ Section: _____

Duration: 10 Days

General Instructions:

- Complete the work neatly in a separate science notebook or scrapbook.
- Write answers in your own words and use labelled diagrams wherever required.
- Perform only simple, safe activities with the help of an adult.
- Do not taste or handle unknown substances or cleaning agents.
- Record your observations and conclusions.
- Use the NCERT Curiosity textbook as the primary reference.

Day 1 – Matter Around Us

1. Identify different states of matter in your surroundings (solid, liquid, gas).
2. Give two examples of each state and write their properties.
3. Prepare a simple flow chart showing changes of state (melting, freezing, evaporation, condensation).
4. Find out two daily life examples where the change of state is useful.

NEP 2020 Focus: Observation, critical thinking and real-life connection.



Day 2 – Nutrition in Plants

1. Draw a labelled diagram of a leaf and write the functions of its parts.
2. Collect two leaves of different types, observe their venation and write the difference.
3. Explain why green plants are called autotrophs.
4. Make a list of five plants found in your neighbourhood and mention their uses.

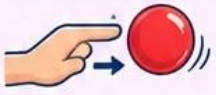
Value Education: Appreciate and conserve plant diversity.



Day 3 – Force and Pressure

1. Perform a simple activity to show the effect of force (e.g., pushing a ball or a box).
2. Give two examples of contact force and two examples of non-contact force.
3. Explain the effect of pressure on solids, liquids and gases with examples.
4. Draw and label a diagram to show atmospheric pressure.

NEP 2020 Focus: Experiential learning and scientific reasoning.



Day 4 – Metals and Non-metals

1. Make a table to compare metals and non-metals on the basis of properties (lustre, conductivity, malleability, etc.).
2. List five objects around you made of metals and five made of non-metals.
3. Explain why metals are used for making utensils and why non-metals are used in certain other objects.

Creative Task: Design a poster on 'Reduce, Reuse, Recycle'.



Day 5 – Atoms and Molecules

1. Draw the structure of an atom with labelled parts.
2. Distinguish between atoms, molecules and compounds with examples.
3. Explain why elements are called pure substances.
4. Make a model (using balls/sticks or simple materials) to show a molecule (e.g., H_2O).



Extension: Find out the chemical symbols of five common elements and write where they are used.

Day 6 – Reaching the Age of Adolescence

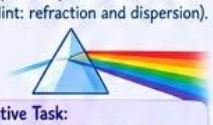
1. List the physical and emotional changes that occur during adolescence.
2. Explain the importance of personal hygiene.
3. Write two ways to manage stress and peer pressure.
4. Suggest healthy habits for a teenager.



NEP 2020 Focus: Health, life skills and emotional well-being.

Day 7 – Light, Shadows and Reflection

1. Observe your shadow at two different times of the day. Note the time and direction.
2. Draw a labelled diagram to show the formation of a shadow.
3. List two differences between a luminous and non-luminous object.
4. Explain why we see a rainbow. (Hint: refraction and dispersion).



Creative Task: Make a small model/diagram of a periscope or kaleidoscope.

Day 8 – Sound

1. Perform a simple activity to show how sound is produced (e.g., vibrating a rubber band).
2. Explain how sound travels from a source to our ears.
3. Compare the speed of sound in air, water and solids.
4. List four ways to reduce noise pollution.



Value Education: Be considerate towards others and avoid noise pollution.

Day 9 – Water – A Precious Resource

1. Draw the water cycle and label its stages.
2. List five ways to conserve water at home and school.
3. Explain the importance of groundwater.
4. Prepare a chart showing sources of water and their uses.



NEP 2020 Focus: Sustainability and responsible citizenship.

Day 10 – Integrated Science Project "My Sustainable Home"

Prepare a 1–2 page illustrated project on how your family can make daily life eco-friendly.

Include:

1. Two ways to save electricity.
2. Two ways to conserve water.
3. Two ways to reduce/reuse waste.
4. One example of waste segregation at home.
5. One scientific concept from Curiosity that supports your ideas.
6. A slogan for a clean and sustainable environment.



Competency-Based Thinking Questions (Answer any five)

1. Why does a metal spoon generally feel colder than a wooden spoon?
2. A bulb does not glow in a circuit. State three possible reasons.
3. Why is rusting different from melting of ice?
4. A student travels 60 metres in 20 seconds. Calculate the speed.
5. Why should waste be segregated before disposal?
6. Why does a shadow change its size and position?
7. How can observing plants and animals help us understand our local environment?

Self-Reflection

Complete the following:

- The most interesting activity was _____.
- One new scientific concept I learned was _____.
- One question I still have is _____.
- I can apply science in my daily life by _____.

Assessment Rubric – 30 Marks

Criteria	Marks
Scientific understanding and accuracy	8
Activities, observations and data recording	6
Application and competency-based answers	6
Diagrams, creativity and presentation	5
Environmental awareness and reflection	3
Neatness and independent effort	2
Total	**30**

Learning Outcomes

By completing this assignment, students will be able to:

- Relate scientific concepts to familiar situations.
- Observe, classify, compare and record information.
- Apply scientific reasoning to everyday problems.
- Interpret simple measurements and calculate speed.
- Communicate ideas through diagrams, tables and writing.
- Demonstrate environmental responsibility, creativity and independent learning.

Be Curious ✱ Be Scientific ✱ Be a Responsible Citizen

HINDI

1. अपठित गद्यांश

निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर प्रश्नों के उत्तर लिखिए।

प्रकृति हमारे जीवन का आधार है। पेड़-पौधे हमें शुद्ध वायु, फल, छाया और अनेक उपयोगी वस्तुएँ प्रदान करते हैं। नदियाँ, तालाब और वर्षा जल के प्रमुख स्रोत हैं, लेकिन बढ़ती जनसंख्या तथा लापरवाही के कारण प्राकृतिक संसाधनों पर दबाव बढ़ रहा है। यदि हम पानी व्यर्थ बहाएँगे और पेड़ों की कटाई करते रहेंगे, तो आने वाली पीढ़ियों को अनेक कठिनाइयों का सामना करना पड़ेगा। प्रकृति की रक्षा केवल सरकार का काम नहीं, बल्कि प्रत्येक नागरिक की जिम्मेदारी है। हम पानी बचाकर, पौधे लगाकर, प्लास्टिक का कम उपयोग करके और अपने आसपास स्वच्छता रखकर पर्यावरण संरक्षण में योगदान दे सकते हैं। छोटे-छोटे प्रयास मिलकर बड़ा परिवर्तन ला सकते हैं।

1. प्रकृति को हमारे जीवन का आधार क्यों कहा गया है?
2. प्राकृतिक संसाधनों पर दबाव बढ़ने के दो कारण लिखिए।
3. यदि हम पानी व्यर्थ बहाएँगे और पेड़ों की कटाई करेंगे, तो क्या परिणाम हो सकते हैं?
4. पर्यावरण संरक्षण के लिए विद्यार्थी कौन-कौन से कार्य कर सकते हैं?
5. गद्यांश का उपयुक्त शीर्षक लिखिए।

2. निम्नलिखित शब्दों से वाक्य निर्माण करें।

आवश्यकता • स्वावलंबन • उत्तरदायित्व • प्रदूषण • प्रतियोगिता • स्वास्थ्य • सृजनात्मक • संरक्षण

3. अनुच्छेद लेखन

निम्नलिखित विषयों पर 120–150 शब्दों में अनुच्छेद लिखिए।
क. पुस्तकें हमारी सच्ची मित्र
ख. स्वच्छ विद्यालय, स्वस्थ विद्यार्थी
ग. विज्ञान: वरदान या अभिशाप

4. पत्र लेखन

क. अपने मित्र को अपने विद्यालय में मनाए गए हिंदी दिवस समारोह का वर्णन करते हुए पत्र लिखिए।
ख. विद्यालय के प्रधानाचार्य को पुस्तकालय में नई हिंदी पुस्तकों की व्यवस्था करवाने हेतु प्रार्थना-पत्र लिखिए।

5. रचनात्मक लेखन

“जब एक दिन बिजली नहीं थी...” विषय पर लगभग 120 शब्दों में एक कल्पनात्मक लेख लिखिए तथा उससे संबंधित चित्र बनाइए।

आवश्यक निर्देश

- सभी कार्य एक अलग नोटबुक बनाकर कार्य करें एवं निर्धारित क्रम में पूरे करें।
- प्रत्येक कार्य को स्पष्ट शीर्षक देकर लिखें।
- लिखावट साफ-सुथरी रखें तथा वर्तनी और विराम-चिह्नों का ध्यान रखें।
- प्रतिदिन कम-से-कम 15 मिनट हिंदी की पाठ्य-पुस्तक पढ़ें।

ENGLISH

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

Book Poorvi

Page 149 Let us write

Page 65 Q - V

Page 64. Q- IV

Page 80. Q - let us write

Page 111. Q II , Q I

Write five examples of: Noun, Pronouns, Adjective, Adverbs

S.ST

- Write learner's diary of all completed chapters
- Revision of all completed chapters
- MDP on the factors of production chapter. Paste relevant pictures also
- Complete your written work for all chapters
- Learn questions for pt 2 exam

SKT

1) संस्कृतभाषायाः महत्त्वविषये दश वाक्यानि लिखत।

2) सुभाषितानि — पञ्च संस्कृत-सुभाषितानि अर्थसहितं लिखन्तु। (Coloured sheet A4)

3) राम, लता , मुनि, नदी शब्दानां रूपाणि लिखत।

4) प्रमुखाणां पञ्च संस्कृतकवीनां चित्राणि संकलयित्वा तेषां नामानि प्रसिद्धकाव्यरचनाश्च लिखत। (Coloured sheet A4 size)

5) अव्ययपदानि — दश अव्ययपदानि लिखित्वा तेषां प्रयोगेण वाक्यानि रचयन्तु।

6) प्रत्ययाः — क्त्वा, तुमुन् तथा ल्यप् प्रत्ययानां पञ्च-पञ्च उदाहरणानि लिखन्तु।

ART EDUCATION

All the students make one painting on A4 Size or A3 size sheet by using any medium of colours like charcoal, sketching,water colour, acrylic colours oil pastel etc. for art exhibition, 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.

VOCATIONAL EDUCATION

Project 1. Topic: Tinkercad Circuits – Arduino Projects

Project 2. One skilled based project for kaushal mela.

AI

Make algorithms for:

1. Finding the largest number among three numbers.

2. Find the number is odd or even.