

ADARSH VIDYALAYA, MOWA HOLIDAY HOMEWORK (2025-2026) CLASS-X

Let the warmth of summer awaken the fire within you—create, explore, dream, and grow. This holiday, let your talents bloom like never before.

Summer is not just a break from the classroom; it's a beautiful season of self-discovery. Whether it's painting a canvas, penning down thoughts, solving puzzles, or learning a new skill—every little effort adds to the masterpiece that is you.

So take this time to nurture your passions, challenge yourself, and come back stronger, brighter, and more confident. Remember, the journey of growth doesn't pause—it transforms.



General Note:

- 1. All the assigned work will be assessed and graded.
- 2. All vacation Practice work need to be done in class work copy.
- 3. Assessment of reading will be done in every exam.
- 4. Parents are requested to:
- · Spend time & have meals together with your ward.
- Motivate your ward to inculcate the habit of "READING HINDI & ENGLISH Literature (Newspaper, Comics etc.)
- · Allow them to be independent (age wise) in their daily tasks like:
- > Arrange shelves
- > Washing their own plates
- > Watering plants & weeding Garden
- > Hang/fold clean clothes
- > Dust furniture
- > Do simple mending (hems, buttons, etc.)
- > Shop for groceries with list
- > Iron clothes etc.
- Include your ward while preparing monthly budget.
- · Share your family history & your childhood memories with them



ENGLISH

- 1. **Chapter review:** Read the chapter 'The Book that Saved the Earth' from your Supplementary text- 'Footprints without Feet' and write a detailed review. Character sketch: Choose a prominent character from the story and create a detailed character sketch highlighting their traits and role in the plot.
- 2. **Poetry writing**: Compose a poem on any one of the following theme:
- Nature
- Dream
- Friendship
- 3. **Dialogue writing:** Create a dialogue between two characters on a given topic: Write a dialogue between two friends discussing if 'Science is a Blessing or a Curse'.
- **4. Detailed analysis:** Read the chapter 'Nelson Mandela: Long Walk to Freedom' and Poem 'Amanda' from your textbook and compare both the chapters and write summary in-depth, including theme analysis, similar and contrasting points.
- 5. Describe the literary devices with examples:-
- Hyperbole
- Symbolic
- Personification
- Alliteration
- Refrain
- Imagery
- Analogy
- Oxymoron
- Onomatopoeia

Note: All the above tasks you have to do in your English Notebook.

HINDI

वाचन कार्य

- 1. पाठ्य पुस्तक को पढ़ते हुए उनके पात्रों एवं घटनाओं पर मनन करना।
- 2. स्वामी विवेकानंद जी की जीवनी के बारे में पढ़ते हुए उनके मूल्यों को समझना।
- 3. पाठ्यक्रम के अनुसार व्याकरण का गहन अध्ययन करते हुए उससे संबंधित प्रश्नों का उत्तर याद करना। लेखन कार्य
- 4. अपने मनपसंद कोई एक विषय पर सुलेख लिखिए।
- 5. संज्ञा, सर्वनाम , विशेषण, क्रिया विशेषण एवं अव्यय की परिभाषा बताते हुए उनके प्रकारों को सउदाहरण समझाइए।



- 6. उपमा अलंकार की पहचान क्या है उदाहरण सहित लिखिए।
- 7. रूपक अलंकार और उत्प्रेक्षा अलंकार का उदाहरण देते हुए दोनों में अंतर स्पष्ट कीजिए।
- 8. वाक्य रचना का प्रवाह चित्र बनाइए।

रचनात्मक कार्य

- 9. मतदान के ऊपर एक आकर्षक विज्ञापन बनाइए।
- 10. नशा मुक्ति पर एक आकर्षक विज्ञापन बनाइए।
- 11. नेताजी के चश्मा के पात्र हलदर साहब के देशभक्ति की भावना ने आपको बहुत प्रभावित किया है , उसका वर्णन करते हुए अपने मित्र को एक पत्र लिखिए।

MATHEMATICS

- O.1 Prove that $\sqrt{7}$ is irrational.
- Q.2 Prove that $3 + 2\sqrt{5}$ is irrational.
- Q.3 Prove that $\sqrt{7} \sqrt{5}$ is irrational. Given that $\sqrt{35}$ is irrational.
- Q.4 Express 0.2545454... as a fraction in simplest form
- Q.5 Using prime factorization, find the LCM and HCF of
- (i) 24, 36, 40
- (ii) 30, 72, 432
- (iii) 21, 28, 36, 45
- Q.6 Show that 6 can never end with the digit 0.
- Q.7 Find the least number of square tiles required to pave the ceiling of a room 15m 17cm long and 9m 2cm broad.
- Q.8 If the roots of the equation $ax^2 + bx + c = 0$ are equal then c = ?
- Q.9 Find the zeroes of the polynomial $p(x) = 2x^2 7x 15$ and verify the relationship between its coefficients and zeroes.
- Q.10 Find the zeroes of the polynomial $p(x) = 3x^2 + 5x 28$ and verify the relationship between its coefficients and zeroes.

SCIENCE

- Q.1 A chemical reaction is a representation of chemical change in terms of symbols and formulae of reactants and products. There are various types of chemical reactions like combination, decomposition, displacement, double displacement, oxidation and reduction reactions. Reactions in which heat is released along with the formation of products are called exothermic chemical reactions. All combustion reactions are exothermic reactions.
- A. Why is respiration considered as an exothermic reaction?
- B. Write the chemical equation of the reaction in which the following changes have taken place with an example of each:
- (i) Change in colour
- (ii) Change in temperature



- C. Lead nitrate solution is added to a test tube containing potassium iodide solution.
- (i) Write the name and colour of the compound precipitated.
- (ii) Write the balanced chemical equation for the reaction involved.
- Q.2 Raju wants to project the image of a candle flame on a screen 48cm in front of a mirror by keeping theflame at a distance of 12cm from its pole.
- (A) Suggest the type of mirror he should use.
- (B) How far is the image formed from its object?
- (C) Find the linear magnification of the image produced.
- Q.3 If the teeth are not cleaned regularly, they become covered with a sticky yellowish layer W of food particles and bacteria. Since layer W covers the teeth, the alkaline liquid X secreted by gland Y inside the mouth cannot reach the teeth surface to neutralize the acid formed by the action of organism Z on sugary food and hence tooth decay sets in:
- A. What is W known as?
- B. What are X and Y?
- C. What are organisms Z? State one way of removing layer W from the teeth.
- Q.4 Make an innovative model (mandatory) on any one topic of
- (a) working model on salt conductivity
- (b) working model to control air/land/water pollution
- (c) working model on aerponics farming
- (d) working model on wind power generation.
- (e) working model of human kidney

Note: Innovative model should not be copied from any web - resources

SOCIAL SCIENCE

- (A) Prepare 'My own Atlas' in your Geography copy on the following topics.
- (i) On Physical map of India -1

Neighbouring Countries with capital

(ii) On Physical map of India -2

Major soils found in India

(iii) On Physical map of India - 3

Major Physiographic divisions of India

(iv) On Political map of India - 4

States with Capitals

(v) On Political map of India - 5

Union Territories with Capitals



(vi) On Political map of India - 6

Locate the following rivers-

- River Indus
- River Ganga
- River Brahmaputra
- River Tapi
- River Narmada
- River Krishna
- River Godavari
- River Kaveri

(B) - *Space Missions*: Research and present on Sunita Williams' space missions, including her time on the International Space Station and her records for spacewalking.

Support your report with pictures (In Geography copy).

ARTIFICIAL INTELLIGENCE (AI)

- 1) Why is data so important for Al systems? Give examples of how different types of data are used in Al.
- 2) If you wanted to teach an Al to recognize different types of fruit, what kind of data would you need to collect?
- 3) Explain the concept of 'machine learning' in simple terms, as if you were explaining it to a five-year-old.
- 4) Create a simple python program that asks the user what the weather is like, and then prints a response based on the users input. For example, if the user says 'sunny' the program can reply 'Great, wear Goggles'.
- 5) Write a Python program that takes a number as input and returns 'positive', 'negative' or 'zero' based on the value of the number. How does this relate to how an AI might classify data?

ART AND CRAFT (DRAWING)

Decorate your drawing file or copy.