



POLE STAR PUBLIC SCHOOL

Sector-7 (Extn.) Gurugram (HR.)

SUMMER HOLIDAY'S HOMEWORK

SESSION: 2025-2026

CLASS – IX



Note : Do assignments in the respective subject register.

Do activities of all the subjects in project file.

ENGLISH

ASSIGNMENT

SECTION- A (READING)

1. Do worksheet no. 1,2 and 3 of comprehension in practice workbook.

SECTION- B (GRAMMAR)

2. Do worksheet no. 31, 32 and 33 of Descriptive paragraph in practice workbook.
3. Do worksheet no. 49 of Determiners in practice workbook.

SECTION- C (LITERATURE)

4. Answer the following questions in 30-40 words.

- a) Why did Bismillah khan refuse to start a shehnai school in the U.S.A.?
- b) What should we do to make friends with the wind?
- c) What do you mean by the phrase- leaves no step had trodden black?

5. Answer the following questions in 50 words. (Moments)

- a) In the fair, the child wants many things. What are they? Why does he move on without waiting for an answer?
- b) Toto was a pretty monkey. In what sense is Toto pretty?

ACTIVITY

THEME : AFFORDABLE AND CLEAN ENERGY

Prepare a project focusing on SDG 7 (Affordable and Clean Energy) in Manipur and Haryana using the following hints.

- Explore the challenges and opportunities for transitioning to a more sustainable energy future in these regions.
- Current energy consumption patterns, assess the potential for renewable energy adoption (solar, wind, hydro).
- Impact of energy policies on poverty reduction and environmental sustainability.

हिंदी

अधिन्यास

मनुष्य का जीवन संघर्षों से भरा होता है। हर व्यक्ति को अपने जीवन में कभी न कभी कठिनाइयों का सामना करना पड़ता है। लेकिन जो व्यक्ति इन कठिनाइयों से डरता नहीं, बल्कि उनका साहसपूर्वक सामना करता है, वही सच्चे अर्थों में सफल होता है। इतिहास ऐसे व्यक्तित्वों से भरा पड़ा है जिन्होंने विषम परिस्थितियों में भी हार नहीं मानी और निरंतर प्रयास करते रहे। एडिसन ने बल्ब का आविष्कार करने से पहले हजारों बार प्रयोग किए, पर उन्होंने कभी असफलता को अपनी मंज़िल नहीं माना। उनके शब्द थे – “मैं असफल नहीं हुआ, मैंने बस 10,000 तरीके खोजे जो काम नहीं करते।” ऐसे लोग हमें यह सिखाते हैं कि असफलता कोई अंत नहीं है, बल्कि यह सफलता की ओर बढ़ने वाला एक आवश्यक कदम है। महात्मा गांधी ने भी संघर्षों से कभी मुँह नहीं मोड़ा। सत्य और अहिंसा के मार्ग पर चलते हुए उन्होंने एक साम्राज्य को झुका दिया। उनका जीवन इस बात का उदाहरण है कि दृढ़ संकल्प और नैतिकता के बल पर कोई भी असंभव कार्य संभव किया जा सकता है। प्रेरणादायक व्यक्तित्व हमें यह सिखाते हैं कि कठिन समय में हिम्मत नहीं हारनी चाहिए, बल्कि उसे अवसर में बदलने की कोशिश करनी चाहिए। आत्मविश्वास, मेहनत और सकारात्मक सोच ही सफलता की कुंजी हैं। यदि हम अपने लक्ष्य के प्रति ईमानदार रहें और निरंतर प्रयास करें, तो कोई भी मंज़िल दूर नहीं।

(i) एडिसन ने बल्ब का आविष्कार किसके बल पर किया?

(क) धन के बल पर (ख) सौभाग्य के बल पर (ग) निरंतर प्रयास और प्रयोग के बल पर (घ) मशीनों के बल पर

(ii) महात्मा गांधी ने किस सिद्धांत के माध्यम से अंग्रेजों को झुकाया?

(क) हिंसा (ख) छल (ग) सत्य और अहिंसा (घ) राजनीति

(iii) लेखक के अनुसार सफलता की कुंजी क्या है?

(क) भाग्य (ख) दूसरों की सहायता
(ग) आत्मविश्वास, मेहनत और सकारात्मक सोच (घ) प्रतियोगिता में आगे निकलना

(iv) गद्यांश के आधार पर स्पष्ट कीजिए कि असफलता क्यों आवश्यक होती है और हमें उससे कैसे सीखना चाहिए?

(v) प्रेरणादायक व्यक्तित्वों से हमें क्या शिक्षा मिलती है? उदाहरण देकर उत्तर दीजिए।

2. एक छोटा सा बीज जब मिट्टी में बोया जाता है, तो वह अंधकार में होता है। लेकिन समय के साथ वह अंकुरित होता है, मिट्टी को चीरता है और ऊपर सूर्य की ओर बढ़ता है। यह प्रक्रिया कठिन होती है, लेकिन वह बीज कभी हार नहीं मानता। मनुष्य का जीवन भी इसी तरह है। जब हम किसी नए कार्य की शुरुआत करते हैं, तो समस्याएँ और असफलताएँ आती हैं। लेकिन जो व्यक्ति धैर्य रखता है, आत्मविश्वास के साथ प्रयास करता है, वही जीवन में ऊँचाइयों को छूता है। स्वामी विवेकानंद ने कहा था – “उठो, जागो और तब तक मत रुको जब तक लक्ष्य की प्राप्ति न हो जाए।” यह कथन हमें सिखाता है कि जीवन में कोई भी कार्य असंभव नहीं, बस संकल्प और प्रयास की आवश्यकता है। हर दिन एक नई शुरुआत है। बीते कल की विफलताओं को पीछे छोड़कर, आज को बेहतर बनाने की कोशिश करनी चाहिए। जीवन में छोटे-छोटे कदम भी

बड़ा परिवर्तन ला सकते हैं। जरूरी है कि हम अपने भीतर छिपी शक्ति को पहचानें और उसे सकारात्मक दिशा में लगाएँ। जो लोग अपने सपनों को साकार करने के लिए कठिनाइयों से लड़ते हैं, वही वास्तव में सफल होते हैं। प्रेरणा हमारे चारों ओर है – प्रकृति में, महान व्यक्तियों के जीवन में और हमारे भीतर भी। हमें बस उसे पहचानने और अपनाने की आवश्यकता है।

(i) बीज के उदाहरण से लेखक क्या समझाना चाहता है?

- (क) बीज मिट्टी में दबा रहता है (ख) जीवन संघर्षों से भरा है लेकिन सफलता संभव है
(ग) मिट्टी अंधकारमय होती है (घ) पौधे सूरज की ओर बढ़ते हैं

(ii) स्वामी विवेकानंद के अनुसार हमें क्या करना चाहिए?

- (क) आराम करना चाहिए (ख) असफलता से डरना चाहिए
(ग) तब तक न रुकना जब तक लक्ष्य न मिले (घ) दूसरों पर निर्भर रहना चाहिए

(iii) लेखक के अनुसार प्रेरणा हमें कहाँ से मिल सकती है?

- (क) केवल पुस्तकों से (ख) केवल अध्यापकों से
(ग) हर जगह – प्रकृति, महान व्यक्तियों और हमारे भीतर (घ) केवल अनुभव से

(iv) गद्यांश के आधार पर समझाइए कि असफलता के बाद भी प्रयास क्यों आवश्यक है?

(v) स्वामी विवेकानंद के कथन का आपके जीवन पर क्या प्रभाव पड़ता है? उत्तर दीजिए।

परियोजना कार्य

हरियाणा और मणिपुर क्लीन एनर्जी को बढ़ावा देने के लिए कौन-कौन सी सरकारी योजनाएं चल रही हैं, इस पर चित्र सहित आकर्षक परियोजना तैयार कीजिए।

MATH

ASSIGNMENT

1. Determine whether the number $\sqrt{50}$ is rational or irrational. Justify your answer.
2. Represent $\sqrt{5}$ on the number line using geometric construction.
3. What type of decimal expansion does $\frac{7}{8}$ have? Is it terminating or non-terminating?
4. Rationalise the denominator of $\frac{1}{\sqrt{7}-\sqrt{6}}$
5. Simplify: $(\frac{2^3 \cdot 3^2}{6})^2$
6. What is the degree and type of the polynomial: $5x^3 - 4x^3 + 7x - 1$?
7. Add: $(2x^2 + 3x - 4)(2x^2 + 3x - 4)$ and $(x^2 - 5x + 2)(x^2 - 5x + 2)$
8. Find the zeros of the polynomial $p(x) = x^2 - 9$
9. Factorise: $x^2 + 5x + 6$
10. Write the coordinates of the point where the x-axis and y-axis intersect.
11. Points A(5,3), B(-2,3) and D(5,-4) are three vertices of a square ABCD. Plot these points on graph paper and hence find the coordinates of the vertex C.
12. For what value of k; $x=2, y=3$ is a solution of the equation $(k+1)x - (2k+3)y - 1 = 0$. Also write the equation.
13. Write a linear equation for the following:
 - i. Perimeter of a rectangle is 36cm.
 - ii. There are two numbers m and n such that three times m is 10 more than n.
14. If two angles $(3x - 10)^\circ$ and $(2x - 20)^\circ$ are supplementary, then find the value of x.
15. It is given that $\angle XYZ = 64^\circ$ and XY is produced to point P. Draw a figure from the given information. If ray YQ bisect $\angle ZYP$, find $\angle XYQ$ and reflex $\angle QYP$.

ACTIVITY

THEME : AFFORDABLE AND CLEAN ENERGY

If a solar panel in Haryana produces 1.5 kWh/ day and Manipur produces 1.2 kWh/day due to lesser sunlight,

- Calculate:
- i) Total energy produced in a month by 10 panels in each state.
 - ii) Compare the monthly savings if 1 kWh = 6 Rs.
 - iii) Represent data in a double bar graph.

SCIENCE ASSIGNMENT

I. Multiple choice questions

1. Which of the following statements are true for pure substances?
(i) Pure substances contain only one kind of particles
(ii) Pure substances may be compounds or mixtures
(iii) Pure substances have the same composition throughout
(iv) Pure substances can be exemplified by all elements other than nickel
(a) (i) and (ii) (b) (i) and (iii) (c) (iii) and (iv) (d) (ii) and (iii)
2. Rusting of an article made up of iron is called
(a) corrosion and it is a physical as well as chemical change (b) corrosion and it is a chemical change
(c) dissolution and it is a physical change (d) dissolution and it is a chemical change
3. A mixture of sulphur and carbon disulphide is
(a) heterogeneous and shows Tyndall effect
(b) homogeneous and shows Tyndall effect
(c) heterogeneous and does not show Tyndall effect
(d) homogeneous and does not show Tyndall effect
4. Tincture of iodine has antiseptic properties. This solution is made by dissolving
(a) iodine in potassium iodide (b) iodine in Vaseline (c) iodine in water (d) iodine in alcohol
5. Which of the following are homogeneous in nature?
(i) ice (ii) wood (iii) soil (iv) air
(a) (i) and (iii) (b) (ii) and (iv) (c) (i) and (iv) (d) (iii) and (iv)
6. Which of the following are physical changes?
(i) Melting of iron metal (ii) Rusting of iron (iii) Bending of an iron rod (iv) Drawing a wire of iron metal
(a) (i), (ii) and (iii) (b) (i), (ii) and (iv) (c) (i), (iii) and (iv) (d) (ii), (iii) and (iv)
7. Which of the following are chemical changes?
(i) Decaying of wood (ii) Burning of wood
(iii) Sawing of wood (iv) Hammering of a nail into a piece of wood
(a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) (d) (i) and (iv)
8. Two substances, A and B were made to react to form a third substance, A₂B according to the following reaction
$$2A + B \rightarrow A_2B$$

Which of the following statements concerning this reaction are incorrect?

(i) The product A₂B shows the properties of substances A and B

(ii) The product will always have a fixed composition

(iii) The product so formed cannot be classified as a compound

(iv) The product so formed is an element

(a) (i), (ii) and (iii), (b) (ii), (iii) and (iv) (c) (i), (iii) and (iv) (d) (ii), (iii) and (iv)

9. Two chemical species X and Y combine together to form a product P which contains both X and Y



X and Y cannot be broken down into simpler substances by simple chemical reactions. Which of the following concerning the species X, Y and P are correct?

(i) P is a compound

(ii) X and Y are compounds

(iii) X and Y are elements

(iv) P has a fixed composition

(a) (i), (ii) and (iii), (b) (i), (ii) and (iv) (c) (ii), (iii) and (iv) (d) (i), (iii) and (iv)

10. Suggest separation technique(s) one would need to employ to separate the following mixtures.

(a) Mercury and water (b) Potassium chloride and ammonium chloride

(c) Common salt, water and sand (d) Kerosene oil, water and salt

11. Salt can be recovered from its solution by evaporation. Suggest some other technique for the same?

12. The 'sea-water' can be classified as a homogeneous as well as heterogeneous mixture. Comment.

13. While diluting a solution of salt in water, a student by mistake added acetone (boiling point 56°C). What technique can be employed to get back the acetone? Justify your choice.

14. What would you observe when

(a) a saturated solution of potassium chloride prepared at 60°C is allowed to cool to room temperature.

(b) an aqueous sugar solution is heated to dryness.

(c) a mixture of iron filings and sulphur powder is heated strongly.

15. Explain why particles of a colloidal solution do not settle down when left undisturbed, while in the case of a suspension they do.

16. An object is dropped from rest at a height of 150 m and simultaneously another object is dropped from rest at a height 100 m. What is the difference in their heights after 2 s if both the objects drop with same accelerations? How does the difference in heights vary with time?

17. An object starting from rest travels 20 m in first 2 s and 160 m in next 4 s. What will be the velocity after 7 s from the start.

18. An electron moving with a velocity of $5 \times 10^4 \text{ m s}^{-1}$ enters into a uniform electric field and acquires a uniform acceleration of 10^4 m s^{-2} in the direction of its initial motion.

- (i) Calculate the time in which the electron would acquire a velocity double of its initial velocity.
- (ii) How much distance the electron would cover in this time?
19. Obtain a relation for the distance travelled by an object moving with a uniform acceleration in the interval between 4th and 5th seconds.
20. An auto travels at a rate of 25 km/hr for 4 minutes then 50km/hr for 8 minutes, finally at 20 km/hr for 2 minutes. Find the distance travelled in km and the average speed for the complete trip in m/

ACTIVITY

THEME : AFFORDABLE AND CLEAN ENERGY

II. Make a project on “Sustainable Energy Solutions: A Study of Manipur and Haryana under Sustainable Development Goal 7.”

1. What is SDG 7? Why is it important in India's context?
2. What are sustainable and non-sustainable sources of energy?
3. Case Study: Sustainable Energy in Manipur
4. Case Study: Sustainable Energy in Haryana
5. Comparison Table: Manipur vs Haryana
6. What challenges do both states face in clean energy adoption?
7. What solutions or innovations are being used?
8. Role of Youth and Students in Promoting SDG 7
9. Conclusion: Can India achieve SDG 7 by 2030?

III. Prepare a working or semi-working model on one of the following topics-

- a) Science and Technology
- b) Agriculture and Human welfare.

Guidelines for the project-

- Collect information from various sources like newspapers, photographs and articles from magazines, internet etc.
- The project should be handwritten.
- List of contents with page number (approx. 12 pages.)
- A case study based on the project shall be appreciated.

SOCIAL SCIENCE **ASSIGNMENT**

Write and learn all questions of French Revaluation.

Portfolio

Political symbols of French Revaluation (History Page No 12-13).

Locate in four political maps of India

- 1) Indian States: Capitals
- 2) Union Territories
- 3) Neighbouring Countries
- 4) Water Bodies

ACTIVITY

THEME : QUALITY EDUCATION

Activity : Write in brief Operation Sindoor

Points : Why, when by whom it was conducted

Make a attractive brochure of water resources of Haryana and Manipur

Prepare a project according to Roll No wise

Project Work : Roll No. 1 to 8 Tsunami Roll No. 9 to 16 Earthquake
Roll No. 17 to 25 Fire, Rail Accident (Cause of disaster precautions, relief, rehabilitation etc.)

INFORMATION TECHNOLOGY

ASSIGNMENT

1. What is self- Management? How is it different from management?
2. Mention any three attitudes of self-confidence people.
3. What does acronym SMART stands for?
4. Write any two advantage and disadvantage of Visual Communication.
5. List the barriers to effective communication. Explain any two.
6. What is procrastination?
7. Why is maintaining personal hygiene essential for overall health and well – being?
8. What is the importance of self-management? Explain briefly.
9. What is SWOT? How it is useful?
10. What are the three most prominent factors that contribute to building self-confidence?

Competency based Questions.

- a) Aarti has volunteered to make a project for the inter-school science competition. The competition is a month away, and she has not even started working on the project. Suggest her some steps to finish the project in time.
- b) Aryan is preparing for a declamation contest. Help him to prepare a list of all the elements of non-verbal communication that he should consider while giving his speech.

PORTFOLIO (Take the Printout) SDG 7 Affordable And Clean Energy

Research and create a solar energy in Haryana. (In PowerPoint) and Take a printout (7-8 Slides)

PHYSICAL EDUCATION

CHAPTER 1: Health and disease

- Write on high blood pressure
- Write behaviour risk factors
- Write physiological risk factors
- Write prevention also

Link : https://epathshala.nic.in/wp-content/doc/book/flipbook/Class%20IX/Health%20and%20Physical%20Education_iehp/iehp101/index.html

Chapter 6 : Any 1 individual Games

- Draw court and write dimension
- Draw equipment also

Link : https://epathshala.nic.in/wp-content/doc/book/flipbook/Class%20IX/Health%20and%20Physical%20Education_iehp/iehp106/index.html

