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BIRLA PUBLIC SCHOOL, PILANI
SUMMER VACATION HOME ASSIGNMENT 2025-26
SUBJECT –English, Hindi, Maths Social Science, Computer, Art
CLASS- VIII

General Instructions: -

- Parents are requested to motivate their children to complete the work independently. Assistance may be provided only if needed.
- The holiday homework will be graded.
- Use a small notebook to complete this assignment.

Theme: Environment and Sustainability

Topic: Sustainable Solutions for Environment issues.

Objective: The goal of this assignment is to understand a major environmental issue, such as climate change, deforestation, or pollution, and explore its causes, effects, and solutions. You'll integrate scientific facts, historical context, mathematical analysis, and English communication to present a well-rounded understanding of the topic.

1. Research on the Environmental Issue

Subject: Science and Social Studies

- **Choose an environmental issue:** Climate change, deforestation, water pollution, plastic pollution. (Any One)
- **Research:**

Science: Investigate the scientific causes of the problem (e.g., what causes climate change? How does deforestation affect biodiversity?). Prepare a PPT and present it in the class after vacation.

Social Studies: Explore how the issue affects different parts of the world, including economic and social impacts. For instance, how does climate change affect agriculture, economies, or communities? Illustrate it in the maps of the world and display it in the class boards to highlight the issue.

Key points to cover:

- What is the issue?
- What are its causes?
- What are the effects on the environment and human life?
- Any specific case studies or real-world examples (e.g., the impact of deforestation in the Amazon Rainforest).

- **Research sustainable solutions:**

What are some ways to reduce the environmental impact of the chosen issue? (e.g., using renewable energy sources, reforestation efforts, or reducing plastic usage).

Local and global initiatives: Investigate what different governments, organizations, and communities are doing to combat the issue.

Social impact: How do these solutions affect people and communities, particularly those most vulnerable to environmental issues? Prepare PPT and present it in the class after vacation.

2. Data Analysis and Mathematical Representation

Subject: Math

- **Find data** related to your environmental issue (e.g., data on CO₂ emissions, deforestation rates, water consumption, or pollution levels).

- **Mathematical tasks:**

Represent this data in pie chart to show trends, comparisons, or the scale of the issue.

Statistical analysis: Calculate averages or percentages based on the data. For example:

- Calculate the average annual deforestation rate in a region.
- Find the percentage increase in CO₂ emissions over the last 10 years.

Interpret the data: Explain the significance of your findings in simple terms.

3. English: Writing and Presentation

- **Write a Report:**

Summarize your findings in a **5-7 paragraph report**.

The report should include:

1. An introduction to the environmental issue.
2. A description of the scientific causes and effects of the issue.
3. A mathematical analysis with data representation (graphs, averages, percentages).
4. A discussion of sustainable solutions and how they can be implemented.
5. A conclusion summarizing the importance of addressing the issue and acting.

- **Prepare a Presentation:**

Create a **PowerPoint presentation** (or use another tool) summarizing the key points from your report.

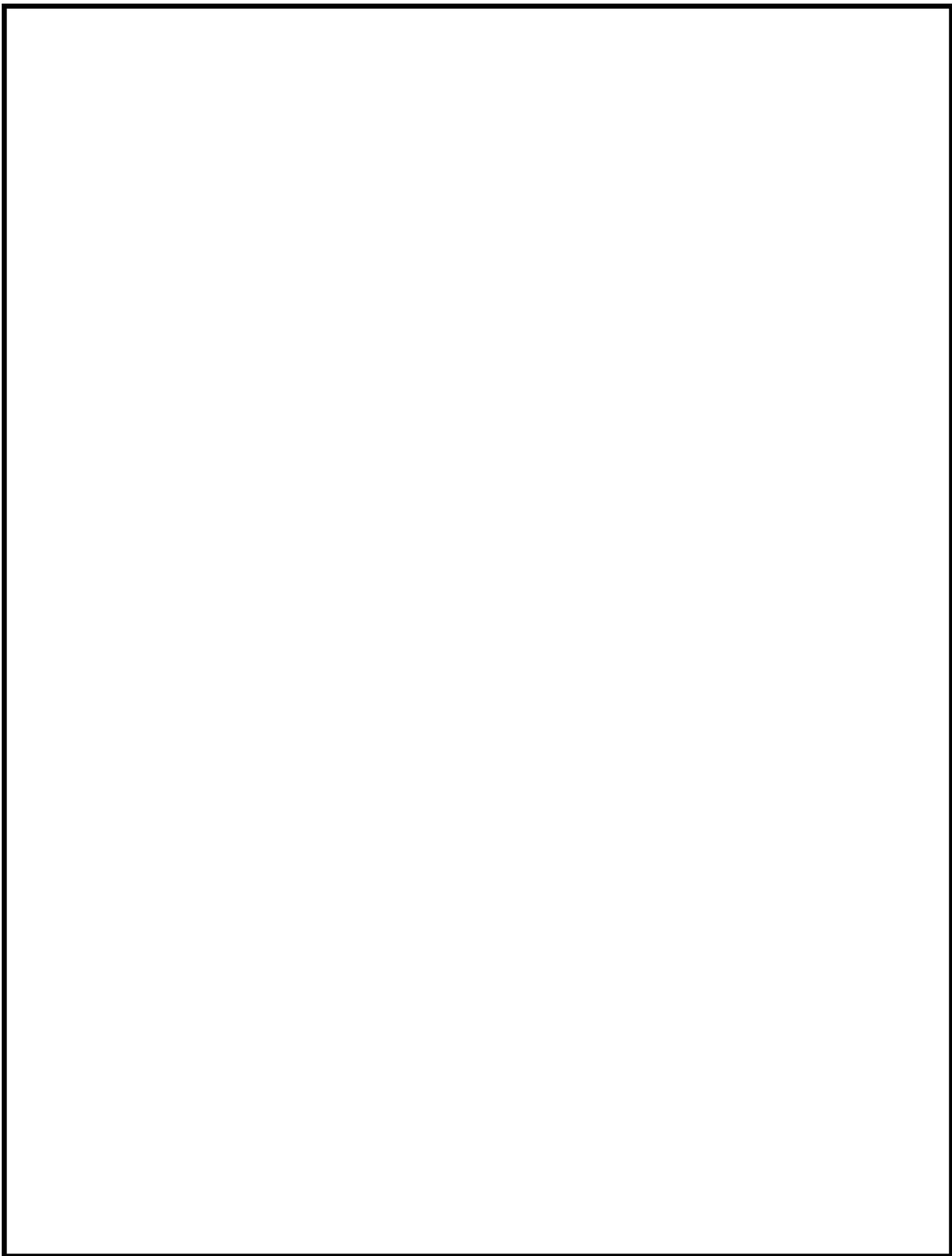
Include visuals such as graphs, images, and diagrams to illustrate the data and solutions.

Be ready to present it to the class, focusing on clear communication and the importance of sustainability.

- Write 15 Idioms related to Environment with meanings and learn them.
- Attempt a Listening Skill Task by clicking on the link given - <https://learnenglish.britishcouncil.org/skills/listening/a2-listening/missing-class>
- <https://learnenglish.britishcouncil.org/skills/listening/b1-listening/student-discussion>

Hindi:

ग्रीष्म ऋतु में आप पक्षियों की सहायता के लिए क्या-क्या कार्य कर सकते हैं ? अपने विचार 80 से 100 शब्दों में लिखिए ।



BIRLA PUBLIC SCHOOL, PILANI

REVISION WORKSHEET

CLASS -VIII-ENGLISH

Tenses Worksheet

Part A: Fill in the blanks with the correct form of the verb in brackets.

1. She _____ (go) to the market every Saturday.
2. We _____ (watch) a movie when the lights went out.
3. By next year, they _____ (complete) the project.
4. He _____ (not/finish) his homework yet.
5. The baby _____ (sleep) when the thunder started.

Part B: Identify the tense and rewrite the sentence in the tense mentioned.

Example:

Sentence: He eats an apple every day.

Tense: Present Simple

Change to: Past Continuous → He was eating an apple.

6. She sings beautifully.
Tense: _____
Change to Future Perfect: _____
7. They were playing football.
Tense: _____
Change to Present Perfect: _____
8. I will call you tomorrow.
Tense: _____
Change to Past Simple: _____

Part C: Choose the correct tense.

9. By the time we arrive, the train (**left / will leave / will have left**).
10. I (**am seeing / saw / have seen**) that movie before.
11. While she (**cooked / was cooking / cooks**), the phone rang.
12. They (**have lived / lived / had lived**) here since 2005.

Part D: Create a sentence in each tense (use the verb “to travel”).

13. Present Perfect: _____

14. Past Continuous: _____
15. Future Simple: _____
16. Present Continuous: _____

Q2. Part A: Identify the noun type (Collective or Abstract).

Write **C** for Collective noun and **A** for Abstract noun.

1. **Pride** – _____
2. **Family** – _____
3. **Anger** – _____
4. **Audience** – _____
5. **Joy** – _____
6. **Committee** – _____
7. **Justice** – _____
8. **Fleet** – _____

Part B: Fill in the blanks with suitable collective or abstract nouns.

9. The _____ of musicians played beautifully.
10. He showed great _____ by telling the truth.
11. A _____ of birds flew across the sky.
12. Her _____ for animals is admirable.
13. The _____ judged the performance fairly.
14. _____ is the key to success.

Part C: Circle the collective nouns and underline the abstract nouns.

15. The team celebrated their victory with great happiness.
16. Wisdom is more important than a crowd's opinion.
17. A bunch of grapes was placed on the table with love.
18. Honesty and trust are important in a friendship.



विद्या निकेतन
बिरला पब्लिक स्कूल, पिलानी
ग्रीष्मावकाश अभ्यास पत्र – (2025-26)

कक्षा – 8
विषय - हिन्दी

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हिन्दी विषय के ग्रीष्मावकाश अभ्यास पत्र के लिए विद्यार्थी अलग से एक नोटबुक बनाएँ।
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- प्र.1 सम्पूर्ण हिंदी वर्णमाला (स्वर एवं व्यंजन) अपनी उत्तर पुस्तिका में लिखिए।
- प्र. 2 'क' से 'ज्ञ' तक बारहखड़ी लिखिए।
- प्र.3 ग्रीष्मावकाश में प्रतिदिन समाचार-पत्र पढ़ें तथा अपनी पसंद के अनुसार एक समाचार प्रतिदिन अपनी उत्तरपुस्तिका में लिखें।
- प्र.4 अपनी उत्तरपुस्तिका में प्रतिदिन 02 पृष्ठ सुलेख लिखिए।
- प्र.5 भोजन सामग्री पर आधारित 10 मुहावरे अर्थ सहित लिखिए।
- प्र.6 ग्रीष्मावकाश में की गई अपनी किसी यात्रा का वर्णन 100 से 150 शब्दों कीजिए।
- प्र.7 आपको छुट्टियों में किसके घर जाना सबसे अच्छा लगता है ? वहाँ की दिनचर्या अलग कैसे होती है? लिखिए।
- प्र.8 ग्रीष्म ऋतु में आप पक्षियों की सहायता के लिए क्या-क्या कार्य कर सकते हैं ? अपने विचार 80 से 100 शब्दों में लिखिए।
- प्र.9 अपनी पसंद की कोई एक कविता कंठस्थ कीजिए।

Birla Public School, Pilani
Competency-Based Worksheet

(MCQs – Recalling Facts)

Q1. What is the total angle in a pie chart?

- A) 90° B) 180° C) 270° D) 360°

Q2. The probability of getting a head on tossing a coin is:

- A) 0 B) 1 C) $1/2$ D) 2

Q3. What is the mode of 4, 6, 4, 3, 4, 6, 7?

- A) 4 B) 6 C) 3 D) 7
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(MCQs & Short Answers – Interpreting Information)

Q4. If a sector of a pie chart is 90° , it represents what fraction of data?

- A) $1/2$ B) $1/3$ C) $1/4$ D) $1/6$

Q5. In the equation $3x-4 = 11$, what operation is performed first when solving?

Q6. Explain in your own words what "equally likely outcomes" means in probability.

(MCQs & Short Answers – Using Knowledge in New Situations)

Q7. Solve: $4x+5=21$

- A) 3 B) 4 C) 5 D) 6

Q8. A bag has 5 red, 3 blue, and 2 green balls. Find the probability of picking a red ball.

Q9. A pie chart shows 25% for 'Books'. Find the central angle for this sector.

(Short Answers – Breaking Down Information)

Q10. A student scores 45, 50, 55, 60, 45. Calculate the mean, mode, and range.

Q11. Solve: $2x - 5 = x + 7$. Verify your solution.

(Case Study – Justify and Conclude)

Q12–Q14: Case Study – Budget Distribution

A pie chart shows monthly expenses:

- **Rent: 90°**
- **Food: 72°**
- **Savings: 54°**
- **Others: 144°**

Q12. Identify which category has the highest expense.

Q13. Are the percentages of each category proportional to their angles? Justify.

Q14. If total income is ₹36,000, how much is saved?

(Case Study – Designing & Problem Solving)

Q15–Q18: Case Study – Age Problem with Equations

Maya is twice as old as her brother. In 5 years, the sum of their ages will be 35.

Q15. Let the brother's age be x . Write an equation to represent the situation.

Q16. Solve the equation.

Q17. What are their current ages?

Q18. Create a similar age problem involving three family members and write its equation.



BIRLA PUBLIC SCHOOL, PILANI
ANSWER KEY OF REVISION WORKSHEET
SUBJECT – SCIENCE
CLASS- VIII

(Chapters- Crop Production and Management & Force and Pressure)

Q.1- i) Use of fertilisers and weedicides are hazardous to environment. Tractor causes air pollution.

(ii) Modern agricultural implements saves on both time and labour as compared to traditional equipments.

(iii) An example of a weedicide is 2, 4-D. Farmers should cover their mouth and nose while spraying weedicides as they can cause health hazards.

Q.2- (a) Seed drill.

(b) The advantages are,

(i) seeds are sown at a uniform distance and depth to avoid over crowding.

(ii) after sowing, seeds are covered by soil which prevent them from being eaten by birds.

(iii) It saves time and labour.

Q.3- (a) Animal husbandry.

(b) Animals are provided with proper food, shelter and care.

Q.4- Kharif : Rice or Soyabean, Rabi : Pea or Wheat.

Pea/Soyabean are legumes that will fix nitrogen with the help of Rhizobium.

Q.5- October to March.

Q.6- Loosening the soil/maintaining high moisture levels in soil.

Q.7- Kharif : Maize , Paddy, Groundnut, Cotton.

Rabi : Mustard, Pea, Wheat, Gram.

Q.8- Electrostatic force.

Q.9- Force of gravity

Q.10- Muscular force.

Q.11- Towards east.

Q.12- Yes

Q.13- When we prick the surface of an inflated balloon with a needle it exerts a larger pressure because it has a smaller area of contact compared to the finger.

The large pressure pierces the surface of the balloon easily

Q.14- The woman wearing sandals with flat soles will feel more comfortable while walking on the sandy beach. The flat soles have larger area compared to the sandals with pointed heels. Since the two women are of the same weight, they will apply same force on the ground. Therefore, the pressure exerted by the pointed heels will be more compared to that with sandals having flat soles. As a result, the pointed heel sandals will sink more in the sand than the flat sole sandals. Hence, walking with flat sole sandals will be more comfortable.

Q.15- Given,

$$\text{Force} = 650 \text{ N} , \text{ Area} = 3.0 \text{ m}^2, \text{ Pressure}=?$$

As we know that,

$$\text{Pressure} = \text{Force} / \text{Area}$$

$$= 650/3$$

$$= 216.6 \text{ N/m}^2$$

$$\text{So, Pressure} = 216.6 \text{ N/m}^2$$

