 Millennium World School, Patna

 Summer Holiday Homework

 Class: X

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sec: \_\_\_\_\_\_\_\_\_

ENGLISH:

**Guidelines:**

* Choose any one question related to Life Under Sea
* Use diagrams, drawings, sketches, or collages to visually represent your ideas.

Students can create a large poster depicting the various components of an underwater ecosystem, including different marine animals, plants, and habitats. They can also include information about the importance of preserving these ecosystems.

 **OR**

Imagine you are a deep-sea explorer who has just discovered a new bioluminescent creature in the unexplored depths of the ocean. How will you use your chosen art form to capture the wonder and mystery of this creature, while also conveying its unique adaptations to living in the darkness?

HINDI:

1. “स्वच्छ गंगा – स्वस्थ भारत“ अथवा “नदियों का महत्व“ विषय पर 100 – 120 शब्दों में लघुकथा लिखें ।
2. आपके मोहल्ले में हो रही जल की बर्बादी की सूचना देते हुए मुख्यमंत्री को पत्र लिखे ।

**MATHEMATICS:**

1. Draw the graph of the waves generated by ocean y= x2 in A4 graph paper.
2. If a dolphin can swim at an average speed of 25 kilometers per hour, how far can it swim in 2.5 hours?
3. The pressure underwater increases by approximately 1 atmosphere for every 10 meters of depth. If a submarine is at a depth of 50 meters, what is the total pressure it experiences in the atmosphere?
4. A school of fish consists of 150 individuals. If each fish lays 200 eggs and 80% of them hatch successfully, how many new fish will be added to the school?
5. Prove that √3 is an irrational number.

**INFORMATION TECHNOLOGY:**

1. Prepare a file which consists of program based on Digital Documentation, Electronic Spreadsheet & SQL queries in practical notebook.

2. ⁠Prepare an individual project work using the program and DBMS in A4 sheet white paper.

SCIENCE:

Project Theme: Preserving Our Resources for a Sustainable Future

Chapter Natural Resources

**Guidelines:**

* Choose any one question related to natural resources.
* Use diagrams, drawings, sketches, or collages to visually represent your ideas.
* Include a clear and concise explanation alongside your artwork.
* Include a short bibliography listing any resources you used.

**Project Questions:**

1. **Clean Water and Sanitation:** Water pollution is a major threat to freshwater resources. Create a comic strip depicting the journey of a water droplet from a clean source to a polluted one. Highlight the different ways water gets polluted due to human activities and suggest solutions for sustainable water management. You can use different speech bubbles within your comic to represent the negative impacts of pollution and the benefits of responsible water use.

**OR**

1. **Life on Land:** Deforestation and unsustainable land use practices lead to soil degradation. Design a poster promoting the importance of conserving soil health. Explain the different types of soil and how various human activities affect soil fertility. You can use diagrams to illustrate the process of soil formation and depict sustainable agricultural practices that maintain soil health. You can also use contrasting visuals to show the negative consequences of deforestation on soil quality.

**Remember:**

* Be creative!
* Use your artwork to enhance your explanation.
* Focus on the link between resource utilization and achieving specific Sustainable Developmental Goals.

SOCIAL SCIENCE:

**Instructions:** Prepare a pictorial project work on any one of the given topics (SDG -Life on land) in

**Topic:** Consumer Awareness

**OR**

Social Issues

**OR**

Sustainable development

Pg 1. Acknowledgment

Pg 2. Content

Pg 3. Introduction to the topic

Pg 4. further information regarding the topic

Pg 5. 6 and 7 - Case study related to the topic (detailed study)

Pg 8. Government policies and actions related to the topic

Pg 9. Conclusion (What knowledge you gained while preparing the project)

Pg 10. Bibliography

**Instructions:**

* Use A4 sheet for the Homework.
* Label your work neatly with your name, class, and section.
* Submit your completed project in a stick file.
* Kindly submit homework on the first working day, after the vacation, for correction.