

HOLIDAYS HOMEWORK
CLASS X

English

1. Do one page handwriting everyday
2. Make a chart on Figures of speech
3. Revise syllabus covered upto 07.05.2022
4. Complete your Learner's Diary
5. Write two words everyday alongwith synonyms, antonyms and frame sentences
6. Do two Book reviews
7. Make two videos(two minutes each) on Environment and Education
8. Practice Letter of inquiry,order and complain

विषय - हिन्दी

निर्देश:-सभी विद्यार्थी यह कार्य ग्रीष्मकालीन अवकाश में करेंगे।

- 1.किसी एक स्वतंत्रता सेनानी का सचित्र वर्णन कीजिए ।
2. गोस्वामी तुलसीदास का साहित्यिक जीवन परिचय लिखिए ।
3. कन्नड़ भाषा के किसी एक लेखक का सचित्र वर्णन कीजिए ।
- 4.सूरदास जी की प्रमुख रचनाओं के बारे में संक्षेप में लिखिए ।
- 5.राम-लक्ष्मण-परशुराम संवाद कविता के आधार पर राम और लक्ष्मण की विशेषताएं लिखिए।
- 6.आप से किसी महापुरुष की मूर्ति लगाने के लिए कहा जाए तो आप किसकी मूर्ति लगाएंगे, और क्यों ?
7. नेताजी का चश्मा, बालगोबिन भगत, सूरदास पद पाठ के प्रश्नोत्तर याद करें।

Social Science

1. Complete your fair notebooks.
2. Write in fair notebook and learn –
 - (i) 40 questions (1 mark) from H.1. The Rise of Nationalism in Europe
 - (ii) 20 questions (1 mark) from C.1. Power Sharing
 - (iii) 20 questions (1 mark) from G.1. Resources and Development
 - (iv) 10 questions (1 mark) from E.1. Development
3. Map skills – All the maps in the syllabus
4. Prepare a project on any one of the following
-Consumer Awareness/ Social issues/ Sustainable development-

Page 1 - School name, topic name, submitted to, submitted by
 Page 2 - Acknowledgement
 Page 3 - Index
 Page 4 - Introduction
 Page 5 - 23 - content related to topic
 Second last page - Conclusion
 Last Page - Bibliography (sources)

MATH

CRITICAL AND CREATIVE THINKING ITEMS
CLASS X : CHAPTER 2 : LINEAR EQUATION IN TWO VARIABLES

Layout

In the below given layout, the design and measurements has been made such that area of two bedrooms and Kitchen together is 95 sq. m.

(i) Form the pair of linear equations in two variables from this situation.
 (ii) Find the length of the outer boundary of the layout.
 (iii) Find the area of each bedroom and kitchen in the layout.
 (iv) Find the area of living room in the layout.
 (v) Find the cost of laying tiles in Kitchen at the rate of Rs. 50 per sq. m.
 (a) Rs. 1500 (b) Rs. 2000 (c) Rs. 1750 (d) Rs. 3000

Fishing

On a bright Sunday morning three friends A, B and C decided to go on river for fishing and boating. They decided to leave for the place together in the evening. The journey was smooth, it just went as scheduled then they reached to the river, and started to set the boat on sail. They were enjoying their ride with full speed. They started boating from a place to another place which is at a distance of 42 km and then again returns to the starting place. They took 20 hours in all. The time taken by them riding downstream in going 14 km is equal to the time taken by them riding upstream in going 6 km.

(i) Form the pair of linear equations in two variables from this situation.
 (ii) Find the speed of the boat in still water and the speed of river.
 (iii) The speed of boat in upstream is
 (a) 5 km/hr (b) 2 km/hr (c) 3 km/hr (d) 6 km/hr
 (iv) At what time they will reach the destination, if the speed of boat is increased by 1 km/hr and the speed of river is decreased by 1 km/hr?

The peregrine falcon



A builder wants to build a sump to store water in an apartment. He planned in such a way that its base dimensions are $(x + 3)$ and $(x - 2)$.

Q1. Find how much he has to dig so that the volume of the rectangular prism will be $V(x) = x^3 + 2x^2 - 4x - 2$.

Q2. If $x = 10$ units, what is the volume of the sump.

Q3. If $x = 10$ and the builder wants to paint the outer portion on the sump, what is the cost of painting, if the cost of paint is Rs. 25/- per square unit.

Q4. If the builder wants to close the sump, what is the cost of painting?

The peregrine falcon



Soaring high above a rugged canyon or a city street, a peregrine falcon spots its prey. The falcon accelerates, then transforms its body into the shape of a speeding bullet by pointing its head down and tucking in its wings and feet. Within seconds of beginning to dive, called a stoop, the peregrine falcon can reach speeds of up to 217 miles per hour.

The peregrine falcon is as much "at home" in the high-rise buildings of the city as it is in the cliffs and mountains. A special program designed to save this bird from extinction has helped it adapt to city life.

About the same size as a crow, peregrine falcons are predators with streamlined bodies and long, pointed wings. The falcon's wings are strong enough to give it the power to carry its prey back to a nest in the cliffs or a top high-rise city building. But the specialized wings of this falcon provide more than just strength. They also enable the peregrine falcon to claim the title of the fastest-moving animal on the earth.

Suppose that the height, in feet, of a peregrine falcon t seconds after it starts diving toward its prey is modelled by the quadratic function $h(t) = -16t^2 + 20t + 300$.

Q1. If the falcon is on 500ft tall building, how long it will take to reach to the prey?

Q2. If the time taken by falcon is 6seconds. Find the height of the building?

5. Revise ch 1 to 3

6. Make formulae diary for ch 1 to 3

7. Solve previous year questions.

8. Working model – Clinometer

9. Project File – Contribution of famous mathematicians in the field of mathematics

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Computer

- 1) Design a quiz consisting of 20 questions on artificial intelligence on scrapbook.
- 2) Make a chart on AI based games.
- 3) Learn all the work done in the class.

SCIENCE

Holidays homework science

KV BEHOLI, SAMALKHA

CLASS -10

I. Complete your science notebook with notes and previous year questions of chapters 1,2,3 and 4.

II. Complete CCT practice items of chapter 1,2,3,4.

III. Write and learn all the chemical formulas and reactions of chapters 1,2,3.

IV. Write practicals in your practical notebook.

V. Prepare project on management of natural resources.