

Holiday Homework

Class 9th

Subject Phy/Chem

Learn & write 2 question/answers of chapters "Matter in our Surroundings ", "Force & Laws of Motion" and "Motion" daily in your separate notebooks.

Projects

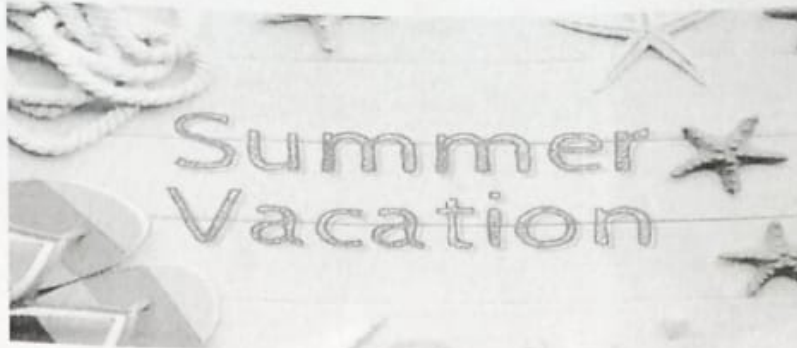
1. Make an Air Pump by using plastic bottle.
2. Prepare working model of lungs by using plastic bottle.
3. Prepare a colourful chart of Indian scientists along with their inventions& also paste their photos.

NAME: _____

CLASS:IX

SUBJECT: ENGLISH

SUMMER HOLIDAY HOMEWORK



Do the following tasks in your English Notebook:

1. Write a report on deforestation. Points to be covered: Causes, Effects and Remedies
2. Write three different letters:

a) Enquiry Letters

b) Placing an order

c) Complaint Letters

3. Subject Enrichment Activity:

Write the autobiography of Dr. APJ Abdul Kalam on A3 Sheet with the picture.

4. Read the poem 'The Road Not Taken' and 'Adventures of Toto'.

5. Computers are a storehouse of knowledge and wisdom and they are hazardous too. Write an article on the topic 'The benefits and harms of computers'. Word Limit is 180-200 Words

6. Dictionary Task:

From the base form of the verb form adjectives, adverbs, nouns wherever possible by selecting minimum 30 words from the dictionary.

ENJOY YOUR HOLIDAYS AND HAVE LOADS OF FUN!

KEEP READING!

STAY FIT!

STAY SAFE!



Holidays Homework

Sub: Maths

Class - 9th

1. Represent $\sqrt{10}$ on the number line.
2. Find decimal expansions of $\frac{10}{3}$, $\frac{7}{6}$.
3. Find 5 rational numbers between -3 and 1.
4. Show that $0.7777 = 0.\bar{7}$ can be expressed in the form of $\frac{p}{q}$.
5. Find three irrational numbers between $\frac{1}{3}$ and $\frac{1}{2}$.
6. Check whether $7\sqrt{3}$, $\frac{5}{\sqrt{2}}$, $\sqrt{2}+7$, $\pi+4$ are irrational or not.
7. Add $2\sqrt{2}+5$ and $3\sqrt{2}+4$.
8. Multiply $6\sqrt{7} \times 3\sqrt{8}$.
9. Divide $8\sqrt{15}$ by $2\sqrt{15}$.
10. Rationalise the denominator of $\frac{3}{\sqrt{2}+\sqrt{7}}$.
11. Find the value of the polynomial $7y - y^2 + 5$ at $y = -1$.
12. Find the remainder when $x^3 + 3x^2 + 3x + 1$ is divided by x .
13. Factorise: $(x - 1)(x + 1) - 2y(x + 1)$.
14. Factorise the following by splitting the middle term:
 $6x^2 - x - 2$
15. Resolve into factors: $36x^2 - 81y^2$.
16. Find the value of 'a' if $(x - 2)$ is a factor of $p(x) = x^2 - 3x + 5a$.
17. Find the remainder when $p(x) = 4x^4 - 3x^3 - 2x^2 + x - 7$ is divided by $2x - 1$.
18. Verify whether $x = \frac{2}{\sqrt{3}}$ is a zero of polynomial $p(x) = 3x^2 - 1$.
19. Factorise $6x^2 + 5x - 6$.
20. Using suitable identities to find the following products:

HOLIDAYS HOMEWORK OF CLASS
9th (BIOLOGY)

1. Project Work: All students will pick one topic from Biology and make a model / chart on it.
2. Read about at least five scientists and their contribution in Biology and write at least 50 words on each scientist. Example: Robert Brown.
3. Choose a topic from chapter 1: Fundamental unit of life to demonstrate a lecture on it. Explain your topic with the help of pictures / diagrams.
4. Revise the Syllabus done in the class.



HOLIDAYS HOMEWORK FOR CLASS 9TH

SUBJECT – S.ST

1. Project of Ch-1, Geography on interleaf along with suitable diagrams
2. Chart on Democracy, Its Importance, Features and List of Democratic Rights
3. Make chart on any one Natural Disaster with causes and mitigation
4. Revise all the syllabus and write the question-answers daily basis on notebook

B*I*U**A**

- a) $(x - 2)(x - 2)$
- b) $(1 - 9x)(1 + 9x)$
- c) $(5x - 2)(5x + 2)$
- d) $(x^2 - \frac{1}{2})(x^2 + \frac{1}{2})$

21. Evaluate the following products without multiplying directly:

- a) 103×106
- b) 209×198

22. Factorise the following using appropriate identities:

- a) $a^2 - b^2$
- b) $49a^2 + 70ab + 25b^2$
- c) $25p^2 - 36q^2$
- d) $4a^2 + 4a + 1 - 4b^2$

23. Expand, using suitable identities:

- a) $(3a + 4b + 5c)^2$
- b) $4x^2 + 4xy + y^2$
- c) $(a + b)^2$

24. Factorise $p^2 + q^2 + qr^2 + 2pq + 6pr + 6qr$.

25. Write the cubes in expanded form:

- a) $(5p - 3q)^3$
- b) $(3a - \frac{1}{a})^3$

• **PROJECT WORK:**

- Representation of $\sqrt{2}, \sqrt{3}, \sqrt{4}, \sqrt{6}, \sqrt{7}, \sqrt{8}$ on number line.
- Types of triangle.
- Practice all the chapters done in the class.

विषय - हिन्दी श्रीममालीन अवकाश गृहकार्य
बच्चा - नौवीं

* हिन्दी (ए) ⇒ पाठ - 5 'साखियाँ, सबद', पाठ - 8 'ग्रामज्ञी' का पठन करें, शब्दार्थ, लघु प्रश्नोत्तर, सार तथा प्रसंग - व्याख्या अपनी कार्य-पुस्तक में लिखें।

* हिन्दी (बी) ⇒ निबंध ⇒ 1) शिक्षा में खेल-कूद का महत्व 2) मेंहगाई की समस्या 3) मेरे जीवन का लक्ष्य 4) देहेज प्रथा

- 5) प्लास्टिक मुक्त भारत
- प्रार्थना पत्र / पत्र ⇒ 1) गत दिनों से आपके क्षेत्र में अपराध बढ़ने लगे हैं। उनकी रोकथाम के लिए थानाध्यक्ष को पत्र लिखिए। 2) बीमारी के कारण परीक्षा न दे सकने पर प्रधानाचार्य को चिकित्सा अवकाश के लिए आवेदन पत्र लिखिए। 3) पुस्तकें मंगवाने के लिए पुस्तक-विक्रेता को पत्र लिखें।

- व्याकरण ⇒ 30 मुहावरे, 20 संधि, 20 संधि विच्छेद, 30 समास विग्रह, 30 पर्यायवाची शब्द।

* परियोजना कार्य ⇒ हिन्दी दिवस / हिन्दी भाषा की विशेषता / महत्व से संबंधित चार्ट बनाएं।