

SUMMER HOLIDAYS HOMEWORK (2024-25)

CLASS - X

SR NO.	SUBJECT	HOMEWORK ASSIGNMENT
1	English	<p>Write the oral comprehension check questions and answers of the chapter Nelson Mandela - A Long walk to Freedom</p> <p>Writing Skill: Topic - Nelson Mandela - Bibliography, Image, Famous works etc. Grammar Textbook : Rules of tenses, 10 Modals and their uses Essay writings on the following topics</p> <ul style="list-style-type: none">• Which changes you want to upgrade in the education system of India?• Do you feel social network should be encouraged or banned?• Text books should be given more importance.• Importance of moral values lectures should be incorporated in Class X <p>Read and learn all the question answers of textbook First flight Textbook : Chapter 1 and 2, Poem 1, 2 and 3 Foot prints without feet: Chapter 1 and 2</p>
2	Hindi	<p>स्पर्श:- Chapter 1. 'कबीर की साखी' (कविता) - प्रश्न उत्तर लिखना और याद करना संचयन:- Chapter 1. हरिहर काका प्रश्न उत्तर लिखना और याद करना व्याकरण:- गद्यांश Page No. 27 to 31 Questions 1 to 5 करना अनुच्छेद 1. आधुनिक जीवन 2. इंटरनेट की दुनिया (लिखना)</p>
3	Maths	<ol style="list-style-type: none">1) For what values of k will the following pair of linear equations have infinitely many solutions? (i) $Kx + 3y - (K-3) = 0$ (ii) $12x + ky - k = 0$2) Find the zeroes of the quadratic polynomial $6x^2 - 3 - 7x$ and verify the relationship between the zeroes and co-efficient.3) A boat whose speed is 18 km/h in still water, takes 1 hour more to go 24 km upstream than to return downstream to the same spot. Find the speed of the stream.4) Find K, if the sum of the zeroes of the polynomial $x^2 - (k+6)x + 2(2k-1)$ is half of their product.5) A plane left 30 minutes late than its scheduled time and in order to reach the destination 1500 km away in time, it had to increase its speed by 100 km/h from the usual speed. Find its usual speed.6) Two water taps together can fill a tank in 9 hrs 36 minutes. The tap of larger diameter takes 8 hours less than the smaller one to fill the tank separately. Find the time in which each tap can separately fill in the tank.7) Find the value of 'a' and 'b' for which the following pair of linear equations has infinitely many solutions. $2x + 3y = 7$, $(a+b)x + (2a-b)y = 21$8) Find the value of k for which the quad. Equation $(3k+1)x^2 + 2(k+1)x + 1 = 0$ has equal roots. Also find these roots.9) Find the roots of the equation $5x^2 - 6x - 2 = 0$ by quad formula.10) If $2x + y = 35$ and $3x + 2y = 65$, find the value of x/y.11) The difference of squares of two numbers is 88. If the larger number is 5 less than twice the smaller number, then find the two numbers.12) Sum of areas of two squares is 544 m^2. If the difference of their perimeters is 32m, find the sides of two squares.13) When 6 new boys were admitted and 6 girls were left from the class, the % of boys in the class increased from 60% to 75%. Find the original number of boys and girls in the class.14) Shows that the following numbers are irrational. (i) $\sqrt{3} + \sqrt{2}$ (ii) $2 - 3\sqrt{5}$15) Find the smallest number that, when divided by 35, 56 and 91 leaves remainders of 7 in each case?

		<p>16) Prove that:</p> <p>(i) $\sqrt{\frac{1-\cos A}{1+\cos A}} + \sqrt{\frac{1+\cos A}{1-\cos A}} = 2\operatorname{cosec} A$</p> <p>(ii) $\frac{1}{\operatorname{Sec} A + \operatorname{Tan} A} - \frac{1}{\operatorname{Cos} A} = \frac{1}{\operatorname{Cos} A} - \frac{1}{\operatorname{Sec} A - \operatorname{Tan} A}$</p> <p>17) If $x = a \sec \theta + b \tan \theta$ and $y = a \tan \theta + b \sec \theta$ then prove that $x^2 - y^2 = a^2 - b^2$</p> <p>18) If $3 \sin \theta + 5 \cos \theta = 5$, then prove that $5 \sin \theta - 3 \cos \theta = \pm 3$</p> <p>19) If $\sin \theta + \cos \theta = \sqrt{2}$, then prove that $\tan \theta + \cot \theta = 2$</p> <p>20) If $1 + \sin^2 \theta = 3 \sin \theta \cdot \cos \theta$, prove that $\operatorname{Tan} \theta = 1$ or $\frac{1}{2}$.</p>
4	Science	<p>Learn question and answer of Chapter 1, Chapter 5, Chapter - 9.</p> <p>Solve numericals of Chapter 9.</p> <p>Draw diagram from Chapter 5 Life Processes (Stomata, Double circulation of blood, Nephron, Digestive System and Excretory system)</p>
5	S.St.	<p>Geography Chapter 1. - Solve the extra questions given in class</p> <p>History Chapter 2. - Solve the extra questions given in class</p> <p>Economics Chapters 1, 2 - Solve the extra questions given in class</p> <p>Practice map of History Chapter 2.</p>
6	IT	<p>Session - 1 : Styles in a document, Session - 2 : Images in a document, Session - 4 : Create and use template, Session - 5 : Creating Tables of Contents - Learn All Question and Answers.</p>



SPACE ENGLISH MEDIUM SCHOOL
(Senior Secondary School – Affiliated upto Std. 12th)
Jetpur, Distt. Rajkot (Gujarat)

Dear Parents,

Date : 27.04.2023

Holiday Homework is as an opportunity to spend quality time together. Holidays are time when you can connect with your child in many ways. As parents are the first and the most important teacher for a child, we can encourage our child to participate in many educational activities at home and promote his/her quest to learn. Working together will not only help your child to build, learn and develop his/her skills but also strengthen your bond with him/her. Let your child take the lead and use his/her imagination, creativity and knowledge to do the assigned task. The role of the parent is to be a facilitator and guide to steer the child in the right direction. He/ She will find his own destination. Original work of students will receive greater recognition and appreciation.

“**HOMEWORK** for summer vacation has been given to the students which will be done regularly. Holiday Homework is mandatory to be submitted on **3rd June 2024** when school reopens.

The school will remain closed for ‘**SUMMER VACATION**’ from **29th April 2024 (Monday) to 2nd June 2024 (Sunday)**. The school will **re-open on 3rd June 2024 (Monday)** at its usual timing.

General Instructions for Students:

- Holidays Homework carries marks; hence submission of work post vacation is compulsory for all students and it must be done in holiday homework notebook or register. Holiday Homework will be evaluated in **Subject Enrichment Activity** which is of **10 marks** and included in **Mid Term Exam**. Marks will be allotted for doing holidays homework.
- The holidays work must be done in a very neat and presentable manner. Do all work under the guidance of your parents and guardians with date & day? Try to do your written work regularly to enhance your writing skill.
- The child will be assessed for the handwriting, presentation, neatness, completion of all the given questions.
- Enrich your vocabulary by learning the vocabulary words from English textual books and newspaper.

“Enjoy a great summer vacation!!!”