

GOLDEN PUBLIC SCHOOL

TARPALLA (GURDASPUR)



**Summer Vacation
Homework**

SESSION 2021-2022

GRADE-10TH



IMPORTANT INFORMATION

"The holiday season is a perfect time to reflect on blessings and take out ways to make life better for those around us".

Summer Vacation is the most awaited time for parents and kids alike. However, this time it is different due to COVID-19 as youngsters are already not going to school. Thus, our responsibilities get double to keep our children active.

We understand it very well that presently our proximity to resources is limited. Considering this, we have tried to keep "Summer Holidays Homework" simple and informative but interesting as well, so that our love to spend their time in completing it.

The objective of holidays homework is to enable our toddlers work independently and also to improve their academic skills.

Here are few suggestions for parents :-

- Make sure that you are spending quality time with your wards amidst this tensed environment. It is very important to keep their anxiety at minimum.
- Giving them small responsibilities in household chores will aid them to be independent.
- Teach them the importance of moral values in their life.
- Motivate them to read good books.
- Encourage them to do one handwriting page each of English and Hindi daily.
- Keeping in view the prevailing situation indulge yourself in various indoor games with them.

We cannot overlook the fact that the Summer Holidays are the time to relax and revive. While the entire world is struggling hard in recovering from the pandemic COVID-19, we together will have to make it sure that our youth is least effected from the panic around.

So, make these holidays memorable for them by providing a nurtured and stimulated environment at home which is full of fun, excitement, and learning.

Please note:

- Prepare a systematic timetable and follow it religiously from the very first day.
- Allow them to complete homework on their own under your guidance.

Holidays Homework is an interesting way to utilise time in the most fruitful way. Wish you all a fun filled, safe and healthy holidays ahead!

ENGLISH

WORK ON BOOK	WORK ON NOTEBOOK	ACTIVIYY
<ul style="list-style-type: none"> ➤ Read the autobiography of Anne Frank or Nelson Mandela. Pick a situation from his/ her life that has inspired you the most. ➤ Read poems Dust of snow and Fire and Ice written by Robert Frost. ➤ Read chapter 7 "The Necklace" of your English course book Footprints without Feet . And answer the question we should be content with what life gives us. 	<ul style="list-style-type: none"> ➤ Now, write down dialogue for a role play that you will present after your vacations. ➤ Then Write the message of both poems on your notebook. ➤ Write the following articles on A four sheets: 1. Self confidence 2. Health ➤ Write a paragraph on the topic my hobbies and also paste the pictures of your hobbies. 	<ul style="list-style-type: none"> ➤ Make an assignment on Smartphone and right their advantages and disadvantages and also paste some pictures of different smart phones. ➤ Make a creative file and insert 5 to 6 pages in it. Now write any ten names of the trees and paste their pictures also write about those articles which are made up of trees. ➤ Use waste material to make a picture frame.

SCIENCE

WORK ON BOOK	WORK ON NOTEBOOK	ACTIVIYY
<p>Read chapter-3(Metals and Non Metals) and solve exercise on book.</p>	<p>Find out internal questions of chapter-3(Metals and Non Metals) and write down on your notebook.</p>	<p>Make a chart examining difference between different kinds of compounds (Ionic, covalent and coordinate compounds)</p>

INFORMATION TECHNOLOGY(I.T)

WORK ON BOOK	WORK ON NOTEBOOK	ACTIVIYY
Solve internal exercise of session: 3,4 and 5.	Find internal questions of session 3, 4 and 5 write on your notebook.	Do practice time on page no. 47,48,49,50 and 59.

MATHEMATICS

WORK ON NOTEBOOK	ACTIVIYY
Solve sums of chapter-15 on notebook.	Solve worksheet and activity on your notebook.

SOCIAL STUDIES

WORK ON BOOK	WORK ON NOTEBOOK	ACTIVIYY
<p>➤ Read Chapter No.1 (The Rise of Nationalism in Europe) Carefully and Find Question answers Of this Chapter .</p> <p>➤ Read chapter number -1 (Power Sharing) of Civics carefully and find question answers on book.</p>	<p>➤ Prepare a project on the topic of Gender Equality.</p> <ul style="list-style-type: none"> • Female illiteracy • Male baied • Child Marriage • Dowry • Gender Discrimination • Female infanticide <p>➤ Paste the pictures on scrapbook related with minerals and energy resources. write few lines about them.</p>	<p>➤ Prepare model Indian rivers with the creative ideas by Using Waste Material.</p> <p>➤ Prepare an assignment on the topic holy City Amritsar.</p>

PUNJABI

WORK ON BOOK	WORK ON NOTEBOOK	ACTIVIYY
<ul style="list-style-type: none"> ➤ ਸ੍ਰੀ ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ : ➤ ਪੇਜ ਨੰਬਰ : 15, 16, 17,18 ਅਤੇ 19 ਨਾਂਵ , ਪੜਨਾਵ ਅਤੇ ਵਿਸ਼ੇਸ਼ ਚੁਣੇ ਅਤੇ ਉਸ ਦੇ ਹੇਠਾਂ ਲਾਈਨ ਲਗਾਓ। ➤ ਘਰ ਦਾ ਪਿਆਰ :ਪੜ੍ਹੋ ਤੇ ਸ਼ਬਦ ਅਰਥ ਯਾਦ ਕਰੋ। ➤ ਮੜੀਆਂ ਤੋਂ ਦੂਰ : ਪੜ੍ਹੋ ਅਤੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਲੱਭੋ। 	<ul style="list-style-type: none"> ➤ ਇਕਾਂਗੀ : ਬੰਬ ਕੇਸ ਵਿਚਲੇ ਪਾਤਰਾਂ ਦੇ ਨਾਂ ਲਿਖੋ ਅਤੇ ਇਕਾਂਗੀ ਦੀ ਮੁੱਖ ਪਾਤਰ ਵੀਰਾਂ ਵਾਲੀ ਬਾਰੇ ਆਪਣੇ ਵਿਚਾਰ ਪੇਸ਼ ਕਰੋ। ➤ ਸੂਫੀ - ਕਾਵਿ ਸ਼ੇਖ ਫਰੀਦ ਜੀ ਦੀ ਜੀਵਨੀ ਬਾਰੇ ਲਿਖੋ। ➤ ਕਰੋਨਾ ਵਾਇਰਸ ਕਾਰਨ ਹੋਏ ਲਾਕਡਾਊਨ ਕਰਕੇ ਆਮ ਇਨਸਾਨ ਨੂੰ ਜਿਹੜੀਆਂ ਸਮੱਸਿਆ ਦਾ ਸਾਹਮਣਾ ਕਰਨਾ ਪਿਆ , ਵਿਸਥਾਰ ਸਹਿਤ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਇੱਕ ਲੇਖ ਤਿਆਰ ਕਰੋ। 	<ul style="list-style-type: none"> ➤ ਤੁਹਾਡਾ ਘਰ ਪ੍ਰਤੀ ਜੋ ਪਿਆਰ ਹੈ ਉਸਨੂੰ ਇੱਕ ਤਸਵੀਰ ਬਣਾ ਕੇ ਆਪਣੇ ਵਿਚਾਰ ਸਾਂਝੇ ਕਰਦੇ ਹੋਏ ਆਪਣੀ ਕਾਪੀ ਤੇ ਲਿਖੋ ➤ ਪੁਰਾਤਨ ਵਿਰਸੇ ਸਬੰਧੀ(ਜਿਵੇਂ ਚਰਖਾ ਕੱਤਣਾ , ਸੰਦੂਕ , ਗਾਗਰ , ਗਹਿਣੇ , ਖਾਣ ਪੀਣ)ਅਲੋਪ ਹੋ ਚੁਕੀਆਂ ਵਸਤੂਆਂ ਦੀਆਂ ਤਸਵੀਰਾਂ ਲੱਭੋ ਅਤੇ ਆਪਣੀ ਕਾਪੀ ਤੇ ਚਿਪਕਾਓ।

WORKSHEET OF MATHEMATICS

1. State Euclid's Division Lemma. Illustrate with the help of 3 examples.
2. State The Fundamental Theorem of Arithmetic.
3. Write the first 10 Prime Numbers and the first 10 Composite Numbers.
4. Make prime factors of the following numbers:
(a) 4320; (b) 784; (c) 31250; (d) 245880; (e) 8496; (f) 168432.
5. Define the HCF and LCM of two positive integers. Illustrate with the help of 2 examples.
6. Explain why the following are Composite Numbers:
(a) $2 \times 3 \times 5 \times 7 \times 8 + 3 \times 4 \times 7$; (b) $3 \times 5 \times 7 \times 11 \times 17 + 10 \times 11 \times 13$.
7. Find the greatest number of 6 digits exactly divisible by 24, 15 and 36.
8. Find the least number that is divisible by all the numbers from 1 to 10.
9. If terminating, write down the decimal expansions of the following rational numbers (without long division):
(a) $\frac{164}{160}$; (b) $\frac{340}{51000}$; (c) $\frac{1458}{1500}$; (d) $\frac{147}{500}$; (e) $\frac{114}{9500}$; (f) $\frac{117}{780}$; (g) $\frac{441}{2^2 \times 5^2 \times 7^2}$.
10. What property must q exhibit for a rational number p/q to have (a) a terminating decimal expansion, (b) a non-terminating but repeating decimal expansion?

WORKSHEET OF MATHEMATICS

Worksheet-1

Fill in the blanks:

- (1) The HCF of 72 and 120 is _____.
- (2) The H.C.F. of 75 and 243 is _____.
- (3) If H.C.F. of 210 and 55 is expressible in the form $210x + 55y$ then $y =$ _____.
- (4) If the H.C.F. of 408 and 1032 is written in the form $1032x - 408 \times 5$ then $x =$ _____.
- (5) The largest number that divides 2053 and 967 and leaves a remainder of 5 and 7 respectively is _____.
- (6) If b is factor of a , the H.C.F. of a and b is _____.
- (7) If the HCF of 657 and 963 is expressible in the form $657x - 963 \times 15$, the value of x is _____.
- (8) The largest number that will divide 398, 436 and 542 leaving remainder 7, 11 and 15 respectively is _____.
- (9) Two tankers contain 850 litres and 680 litres of petrol respectively. The maximum capacity of a tanker which can measure the petrol of either tanker in exact number of times is _____ litre.

Write answer:

- (10) Define HCF of two positive integers and find the HCF of the following pairs of numbers :
 - (i) 32 and 54
 - (ii) 18 and 24
 - (iii) 70 and 30
 - (iv) 56 and 88
 - (v) 475 and 495

WORKSHEET OF MATHEMATICS

Maths Work Sheet

Class - X

Chapter:- Polynomials

Q01 : Find the Zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients:-

- a) $5x^2 - 29x + 20$
- b) $2\sqrt{2}x^2 - 9x + 5\sqrt{2}$
- c) $3\sqrt{3}x^2 - 19x + 10\sqrt{3}$
- d) $x^2 - x - 72$
- e) $x^2 - 2$
- f) $x^2 - 5x$
- g) $x^2 - 9$

Q02 : Form the Quadratic polynomials whose zeros are:-

- a) $3 \pm \sqrt{2}$
- b) $-\sqrt{2}$ and $\sqrt{2}$
- c) $\frac{1}{3}$ and $\frac{1}{4}$
- d) -5 and -3
- e) 3 and $\frac{1}{3}$
- f) $\frac{1}{a}, \frac{1}{b}$

Q03 : Find all the Zeroes of $x^3 + 6x^2 + 11x + 6$ if $(x + 1)$ is a factor.

Q04 : Find all the Zeroes of $x^3 - 10x^2 + 31x - 30$ if 2 is a zero of it.

Q05 : Find the values of a and b , if 2 and 3 are zeroes of $x^3 + ax^2 + bx - 30$.

Q06 : Divide $x^4 - 4x^3 + 8x^2 + 7x + 10$ by $(x - 2)$ and verify the division algorithm.

Q07 : Find the value of k if $(x - 2)$ is a factor of $x^2 - kx + 10$.

Q08 : Find the value of k if 2 is zero of $3x^2 - 17x + k$.

Q09 : Find all the zeroes of $4x^4 - 20x^3 + 23x^2 + 5x - 6$ if two of its zeroes are 2 & 3.

Q10 : If α and β are the zeroes of $x^2 + 5x + 6$ find the value of $\alpha^{-1} + \beta^{-1}$.

Q11 : If $\frac{1}{2}$ and 1 are zeroes of $2x^4 - 3x^3 - 3x^2 + 6x - 2$, find the other zeroes.

