



## HOLIDAY HOMEWORK 2020-21

### CLASS: X

This year, your holiday homework is a fun mix of all the aspects of learning. It has been designed to ensure that you enjoy and learn at the same time. Special attention has been taken to ensure that you use your creativity, your innovative ideas and your imagination to shape your holiday homework into fantastic 'creations'. So enjoy your holidays spending quality times with your near and dear ones and devote sometimes to learn new things.

#### **General Instructions:**

- Holiday Homework of all subjects to be done in **Project files/Digital form**
- Students are instructed to do all the questions given as you will be allotted internal assessment marks for the same.
- To upload the Holiday Homework, make different folders for each subject on your Google drive. For eg: put English homework in English folder, and other subject respectively. Send the link through the Google form shared by the subject teachers. You may also submit the PPT in the Google class room of your respective subject teacher or keep it in a pen drive and hand it over to the teacher when school reopens.
- Credit will be awarded to original photographs/ drawings, illustrations, innovative ideas and creative use of materials.
- Holiday Homework needs to be submitted on 6<sup>th</sup> July 2020.
- Holiday Homework needs to be developed and presented in this order:
  - a) Cover page / First slide showing title, student information (Name, class, section, roll no, school and academic year) and parent's signature./ Parents Name
  - b) Index -List of contents with page numbers.
  - c) The last page should have Bibliography/ Sources of information from where you have collected your information

### **ENGLISH**

1. Prepare a **PPT** on the following lessons from the book '**First Flight**' (all 3): (Max. 10 slides)
  - a) **Glimpses of India**
    - A Baker from Goa
    - Coorg
    - Tea from Assam
  - b) **The Sermon at Benares**
  - c) **Madam Rides the Bus**
2. Read **any one** of the following books. Make an illustrated **book cover** and also write a **book review** based on it.
  - a) The Diary of Anne Frank
  - b) Oliver Twist By Charles Dickens
3. Write a critical appreciation of the novel including the following points:
  - a) Introduction to the author
  - b) Story in brief
  - c) Your favourite character

Reason for liking this book and the lesson learnt from It.

Also prepare an **oral class presentation** of 2 minutes on it

**Please click on the link given below and submit the online revision worksheet which is a part of your holiday homework.**

Link- <https://forms.gle/k9c9dkQnbp8j2ZF29>

**Students to upload the holiday homework on the google drive and share the link of ENGLISH holiday homework folder through the link given below.**

<https://forms.gle/itwqR4ScZhBUyaCv9>

**MATHEMATICS**

HOLIDAY ASSIGNMENT HAS BEEN DIVIDED INTO TWO PARTS.

**Part A—Project : Frustum of a cone**

- a) Search for the meaning of the term "Frustum of a Cone".
- b) Identify and paste/draw the pictures of at-least 3 objects in and around your house having the shape of frustum of cone.
- c) How is the frustum of a cone different from a Right Circular Cylinder?

**Part B—Contains three Assignments:**

- 1) VIRUS TRACKER (To be done on ruled sheets)
- 2) MATCHSTICK PUZZLE
- 3) CODE BREAKER

**GENERAL INSTRUCTIONS FOR MATHEMATICS:**

- If you can take a print out of these sheets, do the questions on the sheets itself.  
OR
- Copy the questions on loose sheets and write the answers.

Holiday home work is to be enclosed in a file (portfolio) containing 5 pages –

- Index
- Project on frustum of a cone
- Ass 1 Virus Tracker
- Ass 2 Matchstick puzzle
- Ass 3 Code Breaker

AHLCON PUBLIC SCHOOL  
SESSION 2020-21  
Class X  
Subject: Mathematics

PORTFOLIO ASSIGNMENT-1  
(Virus Tracker)

Dear students, its been nearly a month now that each and every one of us as a responsible citizen are fighting against COVID-19.

Everyday the newspaper gives us data about various situations.  
Following is the data that appeared on 21st April 2020 in The Hindustan Times

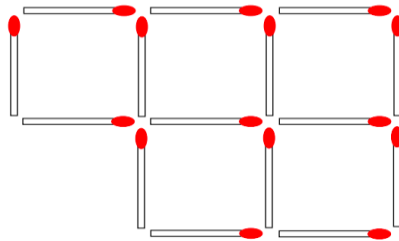
STATE	CASES	DEATHS	RECOVERED PATIENTS
DELHI	2003	45	290
GUJRAT	1743	63	105
MADHYA PRADESH	1407	72	131
MAHARASHTRA	4200	223	507
RAJASTHAN	1431	22	205
TAMIL NADU	1477	15	411
UTTAR PRDESH	1100	17	127

- a) Round-off each of the values in these columns to nearest 100.
- b) Find the MEAN, MEDIAN and MODE of each of the columns considering the rounded values.

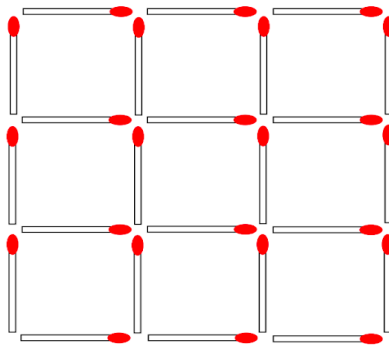
AHLCON PUBLIC SCHOOL  
SESSION 2020-21  
Class X  
Subject: Mathematics

PORTFOLIO ASSIGNMENT-2  
(Matchstick puzzles)

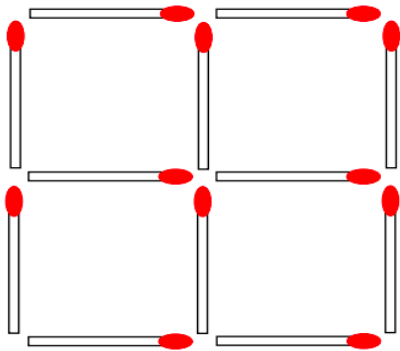
Q1) There are 6 squares in this pattern. Five small squares & one larger square. You are required to take 3 matchsticks away and without moving any of the other matchsticks, leave just three squares.



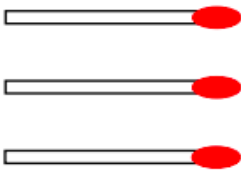
Q2) In this matchstick puzzle ,you are required to take away 8 matchsticks so as to leave just two squares.



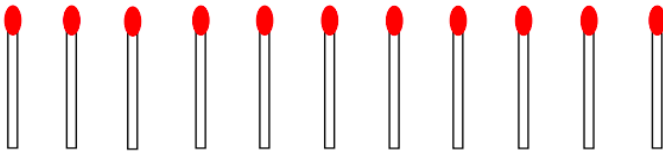
Q3) This pattern is made up of 12 matchsticks to make 5 squares ( 4 small and 1 big ).You are required to move only 2 matchsticks to make 7 squares.



Q4) Use just three matchsticks to make a 9 .



Q5) Rearrange 11 matchsticks to make a 9 (nine) .



AHLCON PUBLIC SCHOOL  
SESSION 2020-21  
Class X  
Subject: Mathematics

PORTFOLIO ASSIGNMENT -3  
(CODE BREAKER)

A code is a way of writing a message in secret. The code given below is very easy in which each letter of the alphabet is replaced by a number. Questions given below are in coded form. You are required to decode the questions and **give your answers in English as well as in Coded form.**

THE DE-CODER

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Q.1

23	8	1	20		9	19		25	15	21	18		14	1	13	5		
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Answers:

ENGLISH : \_\_\_\_\_

CODED FORM:

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Q.2

23	8	9	3	8		9	19		25	15	21	18	
6	1	22	15	21	18	9		19	16	15	18	20	

Answers:

ENGLISH : \_\_\_\_\_

CODED FORM:

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Q.3

23	8	1	20		9	19		25	15	21	18				
1	13	2	9	20	9	15	14		9	14		12	9	6	5

Answers:

ENGLISH : \_\_\_\_\_

CODED FORM:

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Q.4

23	8	15	13		4	15		25	15	21				
1	4	13	9	18	5		20	8	5		13	15	19	20

Answers:

ENGLISH : \_\_\_\_\_

CODED FORM:


Q.5

4	5	19	3	18	9	2	5		25	15	21	18	19	5	12	6
9	14		15	14	5		19	5	14	20	5	14	3	5		

Answers:

ENGLISH : \_\_\_\_\_

CODED FORM:




## SCIENCE

### **GENERAL INSTRUCTIONS FOR SCIENCE:**

- Prepare a **Power point presentation OR a project report** (maximum 5-6 slides/pages including back and front) on ANY ONE of the following topics.
- Class 10 A and B will make on any one topic of Physics from the listed Physics Topics ;Class 10 C and D will make on any one topic of Chemistry from the listed Chemistry Topics and Class 10 E and F will make on any one topic of Biology from the listed Biology Topics.
- Making power point presentation of hand drawn diagrams is also allowed.
- The work submitted by the student should be in PDF format in one single file. The scanned copy or pictures of the project report should also be converted to single PDF file before sending it.
- Students have to include the following information in their power point presentation or project report:  
Name of student, class and section, subject and topic chosen.

### **PHYSICS TOPICS ( 10 A AND 10 B)**

1. State Ohm's Law. Draw V-I graph obtained on the basis of Ohm's Law. Give its Mathematical Formulation. Describe Voltmeter and Ammeter used to experimentally derive Ohm's Law. Write the importance and way to find Least Count and Range of the two devices.
2. Write about the topic "Safe Use of Electricity in Domestic Circuits". Describe about any two "safety devices" which are used in domestic circuits.
3. Elaborate on the various non-conventional sources of energy in modern world. Illustrate with the help of graphs and data about fall in energy demand during coronavirus Pandemic

### **Chemistry topics; (10C and 10 D )**

- Q1 Write 20 chemical equations (You can find these chemical equations from various sources like text book /reference book /internet etc.  
(i) Write names of each reactant and product underneath the equation.  
(ii) Balance each of the chemical equations.  
(iii) identify the type of reaction in each case.
- Q2 Prepare a project report on Corrosion and rancidity.  
Corrosion- definition , reactions involved in the corrosion of iron, silver and copper and four preventive measures.  
Rancidity- definition, three basic types of rancidity and four preventive measures.
- Q3 Write the name of any five chemical compounds that you use in your day to day life;  
(i) classify them as acids ,bases or salts.  
(ii) Write colour change that takes place with one natural and one man made acid -base indicator.  
(iii) Preparation of each chemical compound and its two uses.

### **BIOLOGY TOPICS (10E and 10 F)**

- Q.1 To show experimentally that carbon dioxide is given out during respiration.
- Q.2 To prepare a temporary Mount of leaf to show stomata.
- Q.3 To study binary fission in Amoeba and budding in yeast with the help of permanent slides.
- Q.4 To identify the different parts of an embryo of a dicot seed- pea, gram and red Bean.

**PLEASE CLICK ON THE LINK GIVEN BELOW AND SUBMIT THE ONLINE WORKSHEET WHICH IS A PART OF YOUR HOLIDAY HOMEWORK:**

<https://forms.gle/jm5c9mjTrG9bEv9D7>

**STUDENTS TO UPLOAD THE HOLIDAY HW PPT ON GOOGLE DRIVE AND SHARE THE LINK OF SCIENCE HOLIDAY HW FOLDER THROUGH THE LINK GIVEN BELOW:**

<https://forms.gle/hVRvTeJiHDgyTazh9>

## **SOCIAL SCIENCE**

1. Every student has to compulsorily undertake **any one** project on the following topics:

**Consumer Awareness**

**OR**

**Social Issues**

**OR**

**Sustainable Development**

### **1. (GUIDELINES FOR THE TOPICS)**

**Consumer Awareness** -Your project should reflect the following points or any other aspect can also be Included.

This project proposes to discuss the issue of consumer rights within the context of the ways markets operate in our country.

There are many aspects of unequal situations in a market and poor enforcement of rules and regulations.

Discuss how some consumers are exploited in a real-life situation and how legal institutions help consumers in getting compensated and in upholding their rights.

Express how the awareness of being a well-informed consumer and active participation of people is important.

Mention a few organisations helping consumers in different ways.

### **Social Issues-**

Social issues have plagued the life of too many people. Many times you may have noticed that a lot of things in the society which doesn't seem good. For instance, you must have noticed poor children begging on the streets. They don't go to school. They have been forced to beg for a living. Such circumstances along with others which affect the population at large are social issues. Begging is an issue which arises out of poverty. Poverty is itself is one of the major social issues in India. It is important to understand the general social issues of our society and how they impact the lives of the people of the country. Take any two social issues that we face today and explain them in detail . Keep the following points in mind. Your project should reflect the following points or any other aspect can also be included.

### **What is a Social Issues-**

A social issue is a problem that influences a considerable number of individuals. It is an aspect of society that people are concerned about and would like to get it changed. The concern of a social issue may be objective or subjective. A social issue arises due to diverse opinions of individuals based on what is perceived as right. Social issue does not necessarily refer to an ill to be solved, but it may be a topic to be discussed. Social issues can be different for different groups, societies, countries and world.

### **Causes of the Social Issues:**

There are many causes of the social issues. Social issues arise due to inequalities in society. Different individuals and different societies may have different perceptions about a problem giving rise to a social issue. There can be disagreements about which social issue is important and worth solving, or which should take precedence.

### **Solving Social Issues:**

There are a variety of methods to resolve variety of social issues. These include political processes, non-profit organizations, community groups and volunteering to have public dialogue on a social issue and arrive at a most acceptable solution.

### **Sustainable Development-**

What is sustainable development? "Development that meets the needs of the present without compromising the ability of future generations to meet their own needs"

Your project should reflect the following points or any other aspect can also be included

- Is sustainable development just about saving the environment, or other are there other factors involved such as human welfare, construction, politics or economics?
- What are different types of activities or projects that fall under sustainable development?
- What are some national sustainable development projects?
- Are there any local sustainable development projects?
- What are some international sustainable development projects?
- What are the benefits of sustainable development?
- What are problems and challenges associated with sustainable development?
- What are some organizations that are involved in sustainable development?

3. **General instructions for Social Science**

- The Project should be in a PPT FORM WITH MAXIMUM 20 SLIDES OR HANDWRITTEN.
- While Making a PROJECT the first page you must write the following
  - a) Name      b) Class and section      c) Topic
- Holiday homework needs to be submitted to the respective subject teachers on the day school reopens after summer break. YOU HAVE TO SEND IT IN A GOOGLE FOLDER THAT YOU HAVE CREATED FOR THE SUBJECT.
- Use of the pictures, cartoons, magazines and newspapers clippings etc. where possible. Be creative. Do not just copy paste reading material from internet.

4. **Objective:**

- The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from interdisciplinary perspective.
- It should also help in enhancing the Life Skills of the students.
- Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report.
- If required, students should collect data and use different primary and secondary resources to prepare the project.
- Various forms of art may be integrated in the project work.

5. The distribution of marks over different aspects relating to Project Work is as follows:

S.NO.	ASPECTS	MARKS
a.	Content accuracy, originality and analysis	2
b.	Presentation and creativity	2
c.	Viva Voce	1

6. A Summary Report should be prepared highlighting:

- objectives realized through individual work
- innovative ideas generated in the process.
- Bibliography and the websites used must have a mention in the last slide

**PRESCRIBED BOOKS:**

1. India and the Contemporary World - II (History) - Published by NCERT
2. Contemporary India - II (Geography) - Published by NCERT
3. Democratic Politics II (Political Science) - Published by NCERT
4. Understanding Economic Development - Published by NCERT
5. Together, towards a Safer India - Part III, a textbook on Disaster Management - Published by CBSE

7. PLEASE CLICK ON THE WORKSHEET LINK GIVEN BELOW AND SUBMIT THE ONLINE ASSIGNMENT WHICH IS A PART OF YOUR HOLIDAY HOMEWORK.

[https://docs.google.com/forms/d/e/1FAIpQLSfM1e5eW17gUX3Vtlcg\\_v6B1Xmv\\_nRFlG2tFrZqyQntkU1ENQQ/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSfM1e5eW17gUX3Vtlcg_v6B1Xmv_nRFlG2tFrZqyQntkU1ENQQ/viewform?usp=pp_url)

PLEASE CLICK ON THE LINK GIVEN BELOW AND SUBMIT THE PROJECT/PPT WHICH IS A PART OF YOUR HOLIDAY HOMEWORK:

[https://docs.google.com/forms/d/e/1FAIpQLSeUYnm9aG1EizExAjSLCsefM7NrZTXIsqnn7Hr2Ofq4Pr\\_qGw/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSeUYnm9aG1EizExAjSLCsefM7NrZTXIsqnn7Hr2Ofq4Pr_qGw/viewform?usp=pp_url)

## FRENCH

### General Instructions for French:

- Students have to upload the holiday homework at the link given below in digital form.
  - Make a folder for French holiday homework in which students will create different folders.
  - Holiday homework is to be enclosed in a portfolio containing the following pages:-
  - Histoire
  - conversation
  - PPT
1. Écrivez une histoire de votre choix avec des images en utilisant 'passe composé' et imparfait.(A3 size sheet)
  2. Écrivez vos projets d'avenir et faites une conversation avec votre ami/e en utilisant 'Future Antérieure' et 'Future simple' sur A4 size sheet. (On va faire jeu de rôle dans la classe)
  3. Faites une présentation (PPT) sur imparfait et Future Antérieure.
  4. Google form link for holiday homework <https://forms.gle/3Lqui8HdH6MrDpzMA>

## HINDI

निर्देश-1, सभी कार्य व्याकरण कॉपी में ही कीजिए यदि कॉपी न हो तो पेज़ पर भी कार्य किया जा सकता है।

कार्य का चित्र खींचकर दिए गए लिंक पर अपलोड करके दिनांक 30 जून तक भेज दीजिए।

For Home Work Link is – <https://forms.gle/Gj96mtGuhswwfP8E9>

- 1 निम्नलिखित दोनों विषयों पर लगभग 80 से 100 शब्दों में अनुच्छेद लिखिए। अनुच्छेद में कोई कविता की पंक्ति या किसी विद्वान के विचार अथवा कोई सूक्ति अवश्य होनी चाहिए।  
  
क, बागवानी  
  - प्रस्तावना
  - शौक और सौंदर्य
  - साफ-सुथरी हवा
  - ताजी सब्ज़ियाँ
  - बचत  
ख, राष्ट्रनिर्माण: नारी का योगदान  
  - प्रस्तावना
  - कुछ उदाहरण
  - कार्य में आने वाली बाधाएँ
  - बाधाओं को दूर करने के उपाय
  - निष्कर्ष
- 2 निम्नलिखित दोनों विषयों पर संवाद लिखिए-  
क, परीक्षा समाप्ति पर दो विद्यार्थियों के बीच हुए संवाद को लगभग 50-60 शब्दों में लिखिए।  
ख, खाने की मेज़ पर फैशन की समस्या पर माताजी से बातचीत लगभग 50-60 शब्दों में लिखिए।
- 3 क, चमक पेन के लिए विज्ञापन तैयार कीजिए।  
ख, रक्तदान के लिए विज्ञापन तैयार कीजिए।
- 4 कोई कविता, लेख अथवा लघु कहानी लगभग 2 से 3 मिनट अपनी आवाज़ में रिकार्ड करके भेजिए।
- 5 <https://forms.gle/AgSDwxvCaFE6MXFt9> पुनरावृत्ति कार्य

## SANSKRIT

निर्देश:-

सर्व कार्य पुस्तिकायां अथवा पृष्ठेषु (ruled sheets) कुरुत।

प्रश्न 1 'शुचिपर्यावरणम्' इत्यस्मिन् विषये चित्रं ( Poster) रचयित्वा श्लोकम् (Slogan ) अपि लिखत।

प्रश्न 2 एकं पुस्तकचिह्नं (bookmark) रचयित्वा आदर्शवाक्यं अथवा सूक्तिं लिखत।

प्रश्न 3 विद्यालयस्य पत्रिकायाः हेतोः एकं लेखं लिखत।

प्रश्न 4 अधोलिखितानां विषयानाम् अधिकृत्य पञ्चवाक्यानाम् अनुच्छेदं लिखत।

क) उपवनम् ख) जन्तुशाला ग) वर्षाकालः घ) उत्सवः ङ) बाल-सभा

निर्देश:-

अधोलिखितं लिन्के(link) एकतःचत्वारिपर्यन्तं प्रश्नान् गूगलफार्मे (googleform) पञ्च-षट्-प्रश्नानाम् उत्तराणि पुस्तिकायां च कृत्वा गूगलड्राइवलिन्के (googledrive) प्रेषयत।

<https://forms.gle/FsyFqeGBd8QU8EeD8>

## ART EDUCATION

### General Instructions for Art Education:

- Each question to be done separately on A4 size sheets
- Support your work with pictures/drawings where ever required
- Properly place all the work done in a folder for submission
- Folder should be decorative and presentable.

**Q1. Pattachitra:** a spectacular folk art form from Odisha. Make a painting and write short note on it.

**Q2.** "People have the chance to help the musicians through hard times" - how. Explain.

**Q3.** Describe contemporary dance. Support your write up with pictures.

**Q4.** Write a story on 'your role in the society'.

### FORM LINK:

[https://docs.google.com/forms/d/e/1FAIpQLSc08ihlLbHGyfE9t-P\\_ApoUsAdcXAMGa7q-JHyKnr8Zver2Pg/viewform](https://docs.google.com/forms/d/e/1FAIpQLSc08ihlLbHGyfE9t-P_ApoUsAdcXAMGa7q-JHyKnr8Zver2Pg/viewform)

## COMPUTER APPLICATION

- 1) Find out how the electronic wallet, such as paytm(Pay through Mobile) and OLA Money have simplified e-payment process.
- 2) Open an attachment in the Google docs and edit it. Write your observations.
- 3) Make a presentation of different web services.
  - a) Your presentation must have at least ten slides.
  - b) It must have a title slide and an index slide.

Please attach your homework link in the given google form.

### Paste your Homework folder in the link given below

[https://drive.google.com/open?id=1A1FIgoNpCG0xyyLBprXVT89PbT2YCNl6Aq\\_45MOYI](https://drive.google.com/open?id=1A1FIgoNpCG0xyyLBprXVT89PbT2YCNl6Aq_45MOYI)

Students it is said that “All Work & No Play Makes Jack a Dull Boy”. So practice the following and Stay Safe...

- “ENJOY, RELAX AND REJUVENATE.”
- “CONNECT AND HAVE FUN WITH YOUR NEAR AND DEAR ONES.”
- “EXERCISE, MEDITATE AND EAT HEALTHY. STAY FIT AND POSITIVE.”
- “READ BOOKS, COMMUNICATE WELL AND IMPROVE YOUR LANGUAGE SKILLS”
- “HAPPY VACATIONS”.