



BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI - 110034

SESSION - 2020-2021

CLASS XI HOLIDAY HOMEWORK (JUNE 2020)

The Holidays' Homework MUST be submitted by 10th July 2020.

ENGLISH

Traditional classroom teaching alone cannot motivate every student. We know that you love entertainment and inspirational movies.

This year, we want you to watch four beautiful movies during the holidays!

Yes, you heard right!

We are asking you to watch the following four movies - (Time required to watch movies - 8 hours)

- The Life of Pi
- Lagaan
- I am Kalam
- My Name is Khan

You must be wondering what the catch is!

NO! You don't have to write a review! 🤔

All you have to do is -

Select a scene/ character from each of the four movies and write in about 500 words why you selected that scene or character.

Please do your holiday homework in Microsoft word file using Microsoft O365.

Time required to complete the holidays' homework: 1.5 hours

MATHEMATICS

Are you tired of sitting at home, near computer for online classes???



Let's get a bit creative!!!!



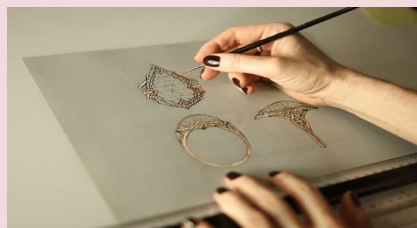
As a part of EBSB programme, let us explore the unique jewellery design of Sikkim.

The exquisitely carved Dragon sets of silver and gold, inlaid with precious stones are unique to Sikkim. They consist of finely designed dragons on earrings, pendants, finger-rings etc. and can be ordered either in silver or gold.



Explore the reason why dragon style jewellery is so famous in Sikkim. What kind of culture do the people of Sikkim follow?

And finally, design any jewellery (for example earrings, pendants, finger-rings etc.) on an A4 size sheet, keeping in mind Sikkim's traditional jewellery.



Once you've designed the Jewelry, get to marketing your design. Develop a function that will result in maximum sale & profit. Once done, explore the following functions:

- i) Sine Function
- ii) Cosine Function
- iii) Tangent Function
- iv) Greatest Integer Function
- v) Signum Function
- vi) Logarithmic Function (Explore its properties too.)
- vii) Exponential Function

Note down all the data on A4 size sheets, and once all the data is collected, prepare a file for record.

Don't forget to click photos/videos while performing these activities for CBSE record.

Note: As a pedagogical initiative, CBSE has introduced Art- Integrated Learning in all its affiliated schools under "Ek Bharat Shrestha Bharat Programme (EBSB)". These activities have been designed keeping that in view.

Also, don't lose track in holidays....do try minimum 2 questions everyday...

Time required to complete the holidays' homework: 6 hours

BIOLOGY

Theme-Kitchen to the Class

Prepare a PPT describing the use of any 5 plant parts/products like stem, root, leaf, seeds which are extensively used in traditional dishes of Sikkim at the time of festivities.

Compare the usage of similar products used in Delhi.

Please note: Images and a very brief content are to be used for the presentation of these products.

Time required to complete the holidays' homework: 6 hours

CHEMISTRY

The emergence of COVID-19 pandemic has resulted in a significant demand for face masks and we are seeing that a large number of people are using cloth masks.

However, there is a limited knowledge available on the performance of all commonly available fabrics used in cloth mask.

Researchers in ACS Nano report that a combination of cotton with natural silk or chiffon can effectively filter out aerosol particles -- if the fit is good.

<https://pubs.acs.org/doi/10.1021/acsnano.0c03252>

<https://www.sciencedaily.com/releases/2020/04/200424081648.htm>

Follow the link above and read the article given in Science Daily on Aerosol filtration efficiency of common fabrics used in preparing mask.

- Involve your parents/ grandparents and check what material is easily available at home and make a face mask for yourself.
- Prepare a short video of not more than two minutes showing how you have prepared your face mask.
- Design a Poster/Newsletter indicating:
 - the material used in preparing various types of masks available
 - the fabrics used in preparing the 'Masks4All' being manufactured in India
 - the purpose of using the combination of two different fabrics for making a cloth mask
 - the factors on which the efficiency of a mask depends

Time required to complete the holidays' homework: 6 hours

PHYSICS

Physics describes how the natural world works through Applied Mathematical formulae. It deals with the fundamental forces of universe and how they interact with matter. All other natural sciences stem from Physics. Physics theory is responsible for the breakthroughs in electronics that precipitate advances in modern computers and electronic media. Physics describes almost all natural phenomena occurring around us.

Your assignment is to make a coloured poster on an A4 size sheet on the topic 'Physics in my Life'.

You can pick up one or more aspects of Physics and work on it. Please note that this is a part of Art Integrated Learning introduced by CBSE this year.

Time required to complete the holidays' homework: 1.5 hours

COMPUTER SCIENCE & INFORMATICS PRACTICES

All of us use various online tools or media for the purpose of communication, entertainment, finance and much more. So, during this time of social distancing, let's utilise the platform of social media positively and do some research on a North East state of India, Sikkim which is also known as 'The Paradise of Botanists'. You and four of your school friends will bring out an online newsletter (using Microsoft O365 Word / Powerpoint) containing the information given below, in the summer vacations.

Record the following:

1. Name, class and the date of birth of all four of you.
2. Your online teaching and learning process along with the online tools used.
3. Exchange your views with one another on the various activities spent by you during the lockdown.
4. Collect your and your friends' views in voice / video.
5. Compare one another's household budget using graphs.
6. Exchange your photos of festival celebrations and family time.
7. You may exchange any other information like hobbies etc.

The newsletter must be of minimum 2 pages and should have an impressive name to it. It must contain a section of video on Sikkim shared by you and your friends. You must design a logo for the newsletter which must depict the features of Sikkim art.

Time required to complete the holidays' homework - 4 hours

ACCOUNTANCY ,BUSINESS STUDIES, ECONOMICS

Sikkim is the first state of our country to be declared 100% organic. Its tourism sector has been benefitting greatly from its new organic image as the number of tourists increased by over 50 percent between 2014 and 2017.

You are the owner of a travel company 'Relax and Enjoy' and you are planning a trip of 3 days and 4 nights to Sikkim. Compute the cost per head inclusive of travel, accommodation and sightseeing for tourists. Don't forget to add group discounts. The cost sheet can be prepared on an A4 size sheet.

Also, make a poster highlighting the following details about Sikkim:

- Domestic tourist arrival in the state for a period of five years i.e 2015-2019.
- Foreign tourist arrival in the state for a period of five years
- State's earnings/ revenues from tourism
- The top 5 source countries for foreign tourist arrivals in Sikkim

The poster can present information using bar diagrams, pie charts and graphs (Diagrammatic /graphic presentation has to be done using some peculiar art forms like Madhubani, Gond art, Mandala etc.).

Reference: <http://sikkim tourism.gov.in/>

Time required to complete the holidays' homework: 8 hours

GEOGRAPHY

2020 has been a different year. Certain events have made us realize that Earth we live on is inhabited by other beings too. They too have an equal right over Earth's resources, its air, its water and land. Over years, we have exploited the available resources and polluted the environment. The global lockdown has shown us that the damages caused can be reversed. Rivers and lakes can be revived and air quality can be improved. It has been for the first time in the human history that humans have been caged, and birds and animals are free, probably after ages. Prepare a powerpoint presentation or a short movie depicting the following. Follow the guidelines given for the same.

1. Positive changes you see in your environment
 - a) A variety of birds and animals
 - b) Clean blue sky
 - c) Better visibility
 - d) Cleaner lakes and rivers etc.
 - e) A comparison of past and present

1. Suggest ways by which we can sustain this change in future through
 - a) A recorded message
 - b) List of changes that we need to incorporate in our daily lives
 - c) A poster depicting your suggestions

Time required to complete the holidays' homework: 4 hours

HISTORY

Dear students this is a collaborative Project work to be researched during the Summer Vacations.

The following steps are suggested:

The project must be done in groups only.

1. The project work can culminate in the form of PowerPoint Presentation/ E-albums/E-files/ and so on.
2. A group of 5 students can work on different subtopics/Questions asked through this project. **"Those Who Do Not Learn From History Are Doomed to Repeat It."**

Q1. Compare and contrast the CoronaVirus with the Spanish Flu epidemic.

Q2. Trace the historical origin of the Word 'Quarantine'.

Q3. Analyze the social & economic impact of epidemics on societies during the course of History with reference to the following:

- a. Black Death
- b. Spanish Flu
- c. CoronaVirus

Q4. Emerging pandemics show that humans are not infallible and communities need to be prepared. List out the various lessons learnt through the course of History in dealing with Pandemics.

Q5. If there is a silver lining in this crisis, it may be that the virus is forcing us to use the internet as it was always meant to be used – to connect with one another, share information and resources, and come up with collective solutions to urgent problems. Examine the various ways in which virtual platform is being used to overcome the current crisis.

Time required to complete the holidays' homework: 4 hours

PAINTING

- Topic - Make a project on the Art and Craft of Sikkim.
- Make a Thangka Painting from the state of Sikkim, using poster colours on an art file or A 3 Cartridge Sheet.
- Prepare a Wall hanging/Doll/Jewellery/Bookmarks from the State of Sikkim. Use any colour or material can be used as per availability in your home for it.
- Do 10 sketches in newsprint sketchbook /newspaper daily.
- Make a handmade project file with the art motifs of Sikkim and write a brief account about the Art and Craft forms of Sikkim.

- You can take reference from the internet.

Time required to complete the holidays' homework: 12 hours

POLITICAL SCIENCE

Political cartoons are a fun way of understanding dense political concepts. Besides, they equip us to think critically!

In keeping with this thought, each student has to design a cartoon strip comprising ten cartoons.

Please note that five cartoons must be gathered from newspapers. This must be followed by a review of the cartoon where you have to interpret the message implicit in the cartoon. The remaining five cartoons must be drawn by the student on current socio-political issues and must also bear a suitable title.

Time required to complete the holidays' homework: 5 hours

PHYSICAL EDUCATION

Record file shall include the following:

S.no.	Game	Detail
1	Athletics	History of Athletics List down all the events of Athletics. State latest changes in rules. Explain any two races, any two jumps and any two throws. Sports Personalities of Athletics List of National Awardees in Athletics Important tournaments Labeled diagram of 400m track with computations(use Mughal paintings to depict it)
2	Yoga	History of Yoga List down all the asanas of Yoga Pictorial presentation of any five asanas for improving concentration
3	Game of your choice: Badminton or Table-Tennis	History of the game Fundamental skills of the game Rules and regulations of the game Latest changes in rules Sports Personalities of the game List of National Awardees of the game of your choice Important tournaments
4	B.M.I	Computation of BMI neighbourhood and graphical representation of the data
5	Awards	List of Current National Awardees (Dronacharya Awards, Arjuna Awards and Rajiv Gandhi Khel Ratna Awards)

Time required to complete the holidays' homework: 6 hours

PSYCHOLOGY

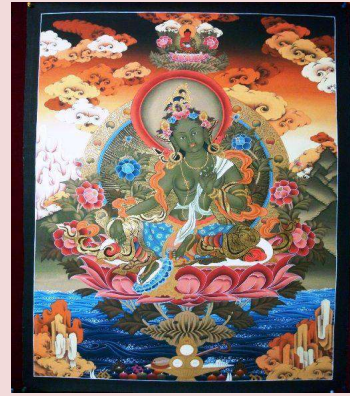
Depth perception allows us to perceive the world around us in three dimensions and to gauge the distance of objects from ourselves and from other objects. One way that we perceive depth in the world around us is through the use of what are known as **MONOCULAR CUES**. These are clues that can be used for depth perception that involves using only one eye.

Q.1 Discuss why monocular cues are also known as pictorial cues.

Q.2 Explain various monocular cues.

Thangka Paintings

Thangka Paintings are unique to the state of Sikkim. These paintings portray images of different Gods, Goddesses and philosophies related to Buddhism. Originally, these paintings were made by priests and monks.



Q.3 Write a note on Thangka paintings.

Q.4 Make a drawing / painting in Thangka Style, illustrating at least four different monocular cues. Clearly point out how the monocular cues are used and where they are exhibited in the painting.

Do your work in A4 size sheets.

Refer to the internet and Psychology textbook - Chapter 5 for more information on monocular cues.

Click photos while performing these activities for CBSE records.

Time required to complete the holidays' homework: 3 hours

