G.D.GOENKA WORLD SCHOOL
HOLIDAY HOMEWORK
GRADE 11

GROUP 1: LANGUAGE A

ENGLISH A-LANGUAGE AND LITERATURE (SL)

Written task 1 based on Language in Cultural Context. Any one topic can be taken. Rationale of 300 words and creative task of 1000 words in one word document to be mailed to the respective teachers.

ENGLISH A-LANGUAGE AND LITERATURE (HL)

Written task 1 based on Language in Cultural Context. Any one topic can be taken. Rationale of 300 words and creative task of 1000 words in one word document to be mailed to the respective teachers.

Hindi A LIT(SL)

1-भाग 1 की दोनों पुस्तकों 1- चेरी का बगीचा 2- मेकबेथ दोनों नाटको को कहानी के रूप मे विस्तार से लिखना।शब्द संख्या(400-450)

· 1-आषाढ़ का एक दिन 2-अंधेर नगरी चौपट राजा शब्द संख्या(400-450) लेखकों की शैली का तुलनात्मक विश्लेषण

इस लिखित कार्य को अपनी उत्तर पुस्तिका में कीजिए-

GROUP 2: SECOND LANGUAGE

ENGLISH B

Read the new syllabus guide of English B 2020.

Watch videos on healthy lifestyle and read articles on how culture affects in forming our identities. Write a letter to your friend sharing your views on how he can maintain good health. Write a blog on how Indian culture is responsible in forming your identity.

Choose a country of your choice, research about its travelling prospects, history and language. On a quarter chart paper, express your feelings about how your personality would have been, if you were part of that culture. Paste pictures of that country to beautify your work.

HINDI B-

1-तीन प्रेरणादायक व्यक्तियों की यू ट्यूब से विडियो निकाले एवं प्रत्येक विडियो के आधार पर 8 से 10 प्रश्न बनाए तथा प्रश्नों के उत्तर भी लिखे । इस लिखित कार्य को अपनी उत्तर पुस्तिका में कीजिए-

2-नीचे दिए गए चित्र को देखकर अपनी पसंद के अनुसार लेख लेखन,भाषण,ब्लॉग लेखन, डायरी लेखन, निबंधलेखन 250-300 शब्दो में तैयार कीजिए।। इस लिखित कार्य को ए 4 साइज़ शीट या चार्टपेपर पर कीजिए।

SPANISH B (SL)

1. Write a description of any Spanish city (20 sentences). On pastel sheet and paste the picture of the same.

2. Do the worksheet for paper 2 practice.

SPANISH AB INITIO

1.   On a pastel sheet beautifully illustrate the differences in culture of Spanish speaking countries and India.

2.   Learn the vocabulary and concepts done in class till date.

FRENCH B (SL)

1. Après avoir regardé la photo suivante, rédigez un article ou une brochure ou un blog ou une affiche (vous pouvez choisir le type de texte) sur un papier de la dimension A3. Écrivez au moins 250 mots.

2. Lisez le livre "La petite fille de Monsieur Linh".

3. Regardez le film "Entre les murs" et écrivez le résumé en au moins 250 mots.

FRENCH AB INITIO

1. Prepare a poster (Size-A2) demonstrating the differences between India and Germany based on festivals, cultures, eating habits, taboos etc.

2.Revise the vocabulary done in class on quizlet.

GERMAN B(SL)

Mach ein Poster auf Gesundes und ungesundes Essen!

Schreib einen Artikel "wie kann man ein gesundes Leben führen"!

Mach eine Präsentation auf deutsch über verschiedene Heilmethoden!

GERMAN AB INITIO

 Prepare a poster and a presentation on differences between India and German speaking countries on the basis of taboos, daily routine, free time activities, working culture, cultural or religious believes etc.

Start revising on Quizlet.com

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GROUP 3: INDIVIDUALS AND SOCIETIES

BUSINESS & MANAGEMENT

Introduction
CUEGIS concepts

1.   ***Change***, reflecting the greater speed with which decisions need to be made and circumstances change in the operating environment of most businesses

2.   ***Culture***, appreciating that businesses need to align a broad spectrum of individual, collective and societal goals

3.   ***Ethics***, emphasizing the fact that the ethical considerations businesses face are substantial and near all-pervasive, instead of being peripheral and isolatable

4.   ***Globalization***, reflecting the interconnected patterns of production and consumption shaped by businesses and affecting them

5.   ***Innovation***, emphasizing the need for businesses to renew themselves in the competitive, technologically advanced market place with increasingly sophisticated customers

6.   ***Strategy***, reflecting the importance of holistic long-term planning in an operating environment with the above attributes

Your Task
Conduct in depth research and study of any two business organizations. You will then apply the CUEGIS Concept to these chosen organizations.

Choosing the businesses:
The case studies you select over the duration of the course must offer you the opportunity to select a range of issues that can exemplify the concepts required and then be applied to a business function, such as Marketing or HRM. This suggests that case studies related to multinational corporations may be preferable, because they offer the depth and breadth to support an answer across several concepts and business functions.

However, even though large multinational companies are the most suitable for the research but suitably selected national or local businesses or social enterprises may be conceptually equally interesting.Examples of businesses:
- Emirates,- Amazon, - Unilever, - Facebook

1. explain how these issues relate to different areas of the syllabus and the six concepts
2. identify solutions to the issues, discuss these, and if appropriate, formulate recommendations.
3. Do discuss the impact on individual and societies
4.

ECONOMICS

Complete Activity worksheets and Commentary (analysis and evaluation): Take any 3 news articles from online newspapers covering the topics done in the class and make an economic analysis of the news.

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HISTORY-

Watch Hotel Rwanda , The Help and Hidden Figures .

Reflection of 200 words on the statement ' The most dangerous Idea is to make someone feel different ' after watching the movies mentioned above .

Do 2 past paper 1 on Conflict and Intervention .

PSYCHOLOGY

Introduction to Psychology

(12 week online course on Cousera)

Steps:

1. Go to www.coursera.org

2. Create an account by signing up.

3. From "Explore" (top left corner) choose "Social Sciences" and then choose "Psychology".

4. Type in the search box "Introduction to Psychology" and enroll into the course by choosing "Full course, No certificate".

5. Complete Week :1-8 (compulsory)

   Weeks 9-12 are optional

6. A written or typed summary of 750-800 words has to be submitted for each week.

ITGS

- Refer to the online site Mashable.com or any informative resource(newspaper,magazine,online database banks)
- Shortlist at-least 5 latest articles based on scenarios-Business & Employment and Education & Training.
- Analyze,Evaluate the topic based on the same for the Criterion writing from Criteria A-D.
- Student Friendly checklist has to be followed for the same.
- Prepare the Prezi presentation on any one of the 5 articles explored .Following criterion will be followed for the presentation to be prepared:
  1. Topic Chosen
  2. Significance and worthiness of the topic
  3. IT Background of the Issue
  4. Application to the specified scenario
  5. Social/Ethical significance of the topic investigated

6. Solutions to the issue arises from the investigation

7. Conclusion

8. Bibliography

9. Appendix

GROUP 4: EXPERIMENTAL SCIENCES

BIOLOGY

- Students will pick any one of the following projects as their Holiday Homework.
- Pointers:
- Ø Chart or paper used should be thick
- Ø Make it colorful
- Ø Add diagrams and pictures
- Ø All writing work should be handwritten
- Ø Students work will be displayed during the science week.

1. Make a chart or booklet on the work of the following scientists:

Scientists specifically named in the syllabus:

· Davison-Danielli

· Singer-Nicolson

· Pastuer

· Crick and Watson

· Meselson and Stahl

· Cairn

· Mendel

· William Harvey

· Galen

· Florey and Chain

· Franklin and Wilkins

· Hershey and Chase

· Calvin

· Thomas Hunt Morgan

· Jenner

· William Beaumont

2. Make a chart or booklet on any five of the following cell types and annotate the diagram:

·   Stem cells

·   Striated muscle cell

·   Giant algae

·   Fungal hyphae

·   Paramecium

·   Prokaryotic cell

·   Eukaryotic cell

·   Exocrine gland cell of pancreas

·   Leaf palisade mesophyll cell

·   Egg cell

·   Sperm cell

·   Haploid cell

·   Diploid cell

·   Zygote

3. Students will make a chart or booklet on the following comparisons:

·   Eukaryotic and Prokaryotic cell

·   Animal cell and Plant cell

·   Light microscope and Electron microscope

·   Carbohydrates and Lipids

·   Diffusion and Active transport

CHEMISTRY

Collect the 15 samples of medicinal drugs from the nearest medical store. Write the salts present in them and find the use of them.

Revise the chapters taught in class.

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ENVIRONMENTAL SYSTEMS & SOCIETIES

" **But man is a part of nature, and his war against nature is inevitably a war against himself. …"**
Why should we tolerate a diet of weak poisons, a home in insipid surroundings, a circle of acquaintances who are not quite our enemies, the noise of motors with just enough relief to prevent insanity? Who would want to live in a world which is just not quite fatal?

—**Rachel Carson (1907-1964),** *****Silent Spring**, 1962.**

 1.   Make a working or 3-D model of a system of your choice or any model related to topic of your choice   in ESS. The model should be your creative work and not simply information copied and pasted from internet, it should be a reflection of your understanding of the information presented in the model. Acknowledge the resources used to make the model at the end of the model and also mention your name, grade and section. This will be graded in terms of presentation, topic chosen and its relevance, the content of information represented in the model, Creativity , references, use of pictures, diagrams, waste material to construct the model. Submit the model to your respective ESS teachers on the reopening of school.

2.   Observe some simple systems such as a candle, a boiling kettle or a plant and draw flow diagrams to show their inputs, outputs, storages and flows. Consider the effects of increasing or decreasing each input and think about feedback mechanisms that regulate the flows.Use your ESS notebook for this and mark it as summer vacation work.

3.   Make a key to identify the animals that you find in a local pond or stream. When you have identified these, research their trophic levels and draw a food web.(Can use Internet).Use your ESS notebook for this and mark it as summer vacation work.

4.   Prepare a collage about the latest news/developments happening in the field of environmental sciences over the summer break -you can collect data by watching the news channels, animal planet, Discovery channel, National Geographic channel. The collage should be your creative work and not simply information copied and pasted from internet, it

should be a reflection of your understanding of the information presented in the collage. Acknowledge the resources used to make the collage at the end of the collage and also mention your name, grade and section. This will be graded in terms of presentation, topic chosen and its relevance, the content of information represented in the collage, Creativity , references, use of pictures and diagrams in the collage. Submit the collage to your respective ESS teachers on the reopening of school.

" Sustainability is about ecology, economy and equity."- Ralph Bicknese

5. Discuss the importance of sustainability relevant to today's world.Use your ESS notebook for this and mark it as summer vacation work.

Submit the work to your respective ESS teachers on the reopening of school.

PHYSICS

"THE SCIENCE OF TODAY IS THE TECNOLOGY OF TOMORROW"

– EDWARD TELLER

These holidays you are required to browse through the authentic 'news websites' (some examples are given below) or 'news papers' or 'news channels' to look for the 'Latest developments in field of Science and Technology', and pick up any one news item/ topic to research/investigate.

https://scitechdaily.com/

http://www.frontline.in/science-and-technology/

http://indiatoday.intoday.in/section/46/1/science-and-technology.html

http://currentaffairs.gktoday.in/category/science-and-technology

http://www.nationalgeographic.com/

http://www.discovery.com/

etc…..

You are required to prepare a Chart & a Prezi/ Power Point Presentation on the chosen topic / news item for Physics Holiday Homework.

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<u>Instructions for Choice of Topic-</u>

Many developments will be posted on these websites/ newspapers/ news channels in two months time of your summer vacation, you have to choose a topic which is relevant and you can explain with the help of your background knowledge and the online research you will do the topic. Don't simply copy-paste the information from different websites/newspapers without any understanding.

<u>Instructions for Presentation-</u>

Ø Presentation can be made using 'Prezi' or 'MS Power Point'.

Ø The presentation should start with the news article/ newspaper clipping/ news video with the citation (mention the source of the news item).

Ø The presentation can have 12 to 15 slides with texts, pictures, videos etc. to explain the chosen topic coherently in your own way.

Ø Include bibliography at the end to acknowledge the resources.

Ø Presentations have to be mailed to the respective physics teacher.

Presentations will be assessed on the following criteria-

Ø Relevance of topic/ news item

Ø Content of the presentation

Ø Choice of pictures and diagrams to explain the topic

Ø Coherent presentation of the topic

Ø Bibliography - wide variety of authentic resources (books, journals, research papers, websites, videos etc.) should be consulted

Best 3 presentations will be presented by the respective students in the Science assembly.

<u>Instructions for Chart-</u>

Ø Charts can be made in the form of collage, a combination of text and pictures, sketching, panting or any form of art. But chart should be able to explain or give a brief idea about the chosen topic/ news item.

Ø Topic/ news item can be presented on one A2 size chart (landscape) <u>or</u> two A3 size charts (landscape/portrait) <u>or</u> four A4 sizecharts (landscape/portrait).

Ø Include bibliography to acknowledge the resources.

Ø Charts have to be submitted to the respective physics teacher after summer vacation.

Charts will be assessed on the following criteria-

Ø Relevance of topic/ news item

Ø Content of the chart

Ø Choice of pictures/diagrams/sketches to explain the topic

Ø Coherent presentation of the topic on chart

Ø   Bibliography - wide variety of authentic resources (books, journals, research papers, websites, videos etc.) should be consulted

OR

Artistic point of view - 'Chart on a relevant topic can also be assessed purely on the aesthetics, for any original art work of the student'.

All the charts will be displayed on the Science Display Boards.

(This is an opportunity for the CAS/College application portfolio)

 "ORDINARY PEOPLE THINK MERELY OF SPENING TIME. GREAT PEOPLE THINK OF USING IT."

– AUTHOR UNKNOWN

COMPUTER SCIENCE

Investigate at-least 10 logical situations from the real life scenarios and prepare the Prezi based on the following from the investigation done:

1. Logical Situation
2. Boolean Expression
3. Logic Diagram
4. Truth Table
5. Expression -how to minimize the situation with a single Logic gate studied as per the course.

GROUP 5: MATHEMATICS

MATHEMATICS HL

INSTRUCTIONS:

Students need to prepare a PPT based on Sequence and Series based on the given points:

- Introduce the term Arithmetic progression and derive the formula for the nth with the help of the given example:
  - Everyday a radio station asks a question for a prize of $150. If the fifth caller does not answer correctly, the prize money increased by $150 each day until someone correctly answers their question. Make a list of the prize amounts for a week (Mon-Fri) if the contest starts on Monday and no one answers correctly all week.
  - Mention the first term, common difference and the general term
  - Calculate the 50th term of the sequence.
  - What is the relationship between the term you are finding and the number of times you have to add the common difference d?
  - Is it possible to have the common difference as negative?
- Define the term Arithmetic Series.
- Take a suitable example to derive the formula of the arithmetic series
- Solve $\sum_{i=1}^{10} 3x - 2$
- Introduce the term geometric sequence and derive the formula for the nth with the help of the given example:
  - Salary of a person started at $100 a week and doubled every week. What would be the salary after four weeks?
  - Mention the first term, common ratio and the general term of the geometric sequence
  - Calculate the 20th term of the geometric sequence
- Define geometric series.
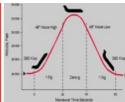- Using a suitable example explain the convergent series

MATHEMATICS SL

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For this project, you will be creating a poster or brochure that goes through the step-by-step procedure needed to draw a quadratic equation. You will also need to include pictures or drawings of real life parabolas.

Preparation:
Before creating your poster, you must find the basic information about the graph of your quadratic equation. You must find the information listed below and have it checked by your teacher BEFORE you start your poster.

1. Does the parabola open upward or downward? How can this be determined from the equation?
2. What is the equation of the axis of symmetry?
3. What are the coordinates of the vertex?
4. What is he minimum/maximum value of the parabola and how was it determined?
5. What is the y-intercept of your parabola?
6. What are the roots/zeroes/y-intercepts of your parabola? How many roots are there and how do you know?
   a. Solve by factoring
   b. Solve using the quadratic formula (extra credit 10pts)
7. How do you find other points on the parabola? Find at least three points on each side of the parabola.
8. Graph the parabola on graph paper.
9. Find at least three pictures that represent parabolas. You can print pictures from the computer, draw pictures of parabolas in everyday life, or cut out pictures from magazines.

Creating your Poster/Brochure
1. Write your quadratic equation on the top of your poster/brochure.

2. You need the following information on your poster/brochure:

   a. Direction of Parabola Section: You need a statement that says, "The parabola

Accuracy		

   for this equation opens_____ because
   _____."

   b. Maximum/Minimum Section: You must describe how you determine if the equation has a maximum or minimum value and what that value is. You must include a statement that says something like, "The maximum value of this quadratic function is _____."

   c. Axis of Symmetry Section: you must include the formula for finding the AOS and the following statement. The axis of symmetry is _____.

   d. Vertex Section: you must include all of the work that you did in order to find the vertex, as well as a statement that says, The vertex is located at (____,_____).

   e. Y-Intercept Section: You must describe how you find the y-intercept and include a statement that says, "The y-intercept for this equation is (_____,_____).

   f. Roots/Zeros/x-intercepts Section: You must find the roots of the function by factoring and by using the quadratic formula (10 points extra credit). You must identify how many roots there will be. The roots of this quadratic equation are (_____,_____) and (_____,_____).

   g. Other Points Section: You must show how you found three other points on your parabola. One of the points must be found by explaining the symmetry of the parabola.

   h. Graph: The graph of the parabola must be drawn on graph paper. All points must be labeled. The axis of symmetry and vertex must be labeled too.

   i. Real-Life Section: Find examples of parabolas in magazines, on the Internet, or draw them. You must have at least three examples.

Posters must be organized, colorful, and neat.
All Posters are due: _____
Total Possible Points: 40 Points (plus 10 points extra credit)

Direction of Opening: The statement "The parabola for this equation opens _____ because _____." is included.	2 points	
Axis of Symmetry: The formula for the AOS is included. The work needed to find the axis of symmetry is included. The statement, "The axis of symmetry is _____." is included.	2 points	
Vertex: the work needed to find the vertex is included. The statement, "The vertex is located at (__,__)." is included.	2 points	
Maximum/Minimum Value: A description of how to determine if the function has a maximum or minimum value is included. The statement, "The maximum/minimum value of this quadratic function is _____." is included.	2 points	
Y-Intercept Section: A description of how to find the y-intercept given the equation is included. The statement, "The y-intercept for this equation is (__,__) ." is included.	2 points	
X-Intercepts/Roots Section: The x-intercepts are found by factoring. The statement, "The roots of this quadratic equation are (__,__) and (__,__)," is included.	6 points	
Other Points: Three points on each side of the vertex are found through (1,1a), (2,4a), (3,9a)	6 points	
Graphing Section: The graph is drawn on graph paper and included on the poster.	6 points	
Your name is on the front or back of the poster.	1 points	
The poster is neat and legible, with each section clearly labeled.	5 points	
3 Real world pictures/sketches are included.	6 points	
Uses Quadratic Equation to solve (10 points Extra Credit)	10 Points (EC)	
Total Points	40 points	

Name: _____ Period: _____

Parabola Rubric: Attach this paper to the back of your poster!!

MATHEMATICAL STUDIES

Number Systems Project

Essential Questions
How did different civilizations write numbers?
What are the different types of number systems in use?
Why are different bases in use today?

Projects should be about 4 pages typewritten or neatly handwritten, includingdiagrams.
Though you can receive advice and help from others, this is an
Individual
assignment. Projects will be graded on completeness, mathematical
content, and creativity

Theory Of Knowledge

Write your reflections (any three) on A-3 size paper on the topics: Power, development, security, international relations, globalization, and borders. Use the TOK concepts, contents and terms. You can choose a RLS on the topics listed above (from internet) and make a chart, mind map, concept map etc. reflecting your ideas, thoughts, and/or comments.
Due date: July 24, 2018

GROUP 6

THEATRE

Watch a live Theatre performance and make a Director's notebook out of it including pictures and videos and collect evidences.

Research on a Theatre company which produces original Theatre piece collect photos, videos and evidences.

VISUAL ARTS

- Visual Arts Journal will be continue, (Minimum 40 Pages) Documents and Visual.
- Research and investigate artwork and artist.
- Select 2 artwork for comparative study according to criteria given in the guide. (minimum 10 Pages)
- At least 2 Artwork (IA).