

RAMJAS SCHOOL, ANAND PARVAT NEW DELHI-05

HOLIDAY HOMEWORK (2021-22)

CLASS XII A

SUBJECT - ENGLISH

1. Create a Google form and conduct a survey on any of the following topics:

- Most promising courses for students after Grade 12
- What skills do students need to thrive in the digital era?
- Impact of Covid-19 on mental health of students

Sample Size- 30 people

Present the data in form of an **article** in about 120-150 words.

Compile everything in a PowerPoint presentation using the given format and mail it your teacher.

Slide 1-Name of the topic, student, class and roll number

Slide 2- Questionnaire designed to conduct the survey

Slide 3- Data obtained in form of a bar graph or pie chart

Slide 4- Article based on the collected data

Slide 5- Thank You

2. Read one of the books suggested under extensive reading and either design a poster for its book-signing event or record a short video of yourself expressing your views about the book.

3. Select a short story or a poem from your book, 'Flamingo' or 'Vistas' and use your creativity to turn it into a painting or illustrate it with appropriate pictures. You can even turn it into a song or a short film.

Books for Extensive Reading

1. The Little Prince by Antoine de Exupery
2. The Canterville Ghost by Oscar Wilde
3. The Blue Umbrella by Ruskin Bond

SUBJECT - MATHEMATICS

(1) Do Ex 12.1 and examples before Ex 12.1 and Ex 12.2 of NCERT (part II) of the chapter Linear Programming.

(2) Do revise the following chapters of class XI, for better understanding the concepts in Class XII.

- Limits and Derivatives
- Probability
- Trigonometry
- Relations and Functions

SUBJECT- PHYSICS

1. Any 20 numerical problems on superposition principle.
2. Any 20 numerical problems on quantization of charge
3. Revise the topics covered till date.
4. Revise the following topics of 11 standard as their basic knowledge is required in class 12

Vectors, Dimensional analysis

SUBJECT - PSYCHOLOGY

Prepare **one** of the following options as your summer vacation holiday homework. Please note., this project will carry marks , hence take a serious and a positive approach for the same.

1. With current unprecedented times, we are not only going through crisis as a result of widespread of COVID 19. But , on a close focus we can see, a blue state experienced by people . This blue state is referred to as a dip in Mental Health of individuals where they find themselves tired, irritated, anxious, depressed due to what uncertainty the future holds for them.

Based on this ,

Make a video using canva , educating people about common mental health illness people can develop and prescribing them steps of how to counter this situation.

Take an interview with people before and after showing them the video and note the difference in their opinion.

Prepare an article for the same.

You can mention about-

Stigma attached to the mental health

Refusing to take counseling as an important step

Not believing in the situation

Or

Difference in the opinion after watching the video

Taking their actions seriously

Including yoga and meditation in the schedule

OR

2. You as a psychology student are given responsibility to educate fellow students about Importance of Teen Mental health. Prepare a brochure/ magazine on the same. (Use canva, preferably)

OR

3. Prepare your version of psychology magazine for the school . You can include
Articles
Interesting facts
How to manage a situation
Stories
Poems
Did you know etc
(Use canva ,preferably)

SUBJECT - BIOLOGY

From class 12 NCERT Text book, one chapter is allotted to each one of you. Read the allotted chapter carefully.

On the basis of knowledge gained and previous knowledge of junior classes, **make a power point presentation (minimum 15 slides) depicting the essential points, labelled diagrams and figures from the chapter.** Number of slides may exceed depending upon the concepts.

You may refer to 'Trueman's Elementary Biology' class 12 by Bhatia and Tyagi for clarity of concepts and illustrations.

Mail the PPT at the i.d. archna.c@ramjasap.edu.in

S.No.	Student's Name	Chapter's Name
1.	Avik Negi	Sexual Reproduction in Flowering Plants
2.	Dev	Human Reproduction
3.	Disha Bhasin	Reproductive Health
4.	Ishika Khandelwal	Human Health and Diseases
5.	Ishita Modi	Strategies for Enhancement in Food Production
6.	Khushbu Yadav	Microbes in Human Welfare
7.	Khushi Thakur	Organisms and Populations
8.	Niharika Pingolia	Environmental Issues
9.	Sarthak Uniyal	Biotechnology and its Applications
10.	Sumanyu Prashar	Biodiversity and Conservation
11.	Vartika Sharma	Evolution
12.	Yash Jain	Ecosystem

SUBJECT- CHEMISTRY

1. Define anisotropic substance.
2. Cation is dislocated to interstitial site, name the defect.
3. NaCl is consisting of SrCl_2 . The defect is called.....
4. Explain schottky defect with example.
5. Excess of K in KCl make it violet. Why?
6. In hexagonal close packing, how many atoms surround one atom.

7. A compound form hcp, how many total no. of voids in 0.5 mol of it.
8. A compound is formed of two elements A and B. The element of B forms ccp and atoms of A occupy $\frac{1}{3}$ of tetrahedral holes. Calculate the formula of the compound.
9. Name the crystal $a = b \neq c$, $\alpha = \beta = \gamma = 90^\circ$
10. Which group element be added to silicon to make p type semiconductor.
11. Do numericals Q NO. 11, 13 , 15, 24 (CHAPTER SOLID STATE) NCERT.