



ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN
HOLIDAY HOMEWORK
SESSION: 2017-18
SUBJECT: ENGLISH
CLASS: IX

1. Read 'Gulliver's Travels' (whole novel).
2. Revise the syllabus done for first periodic in July.
3. Write a book review of ANY book outside your syllabus.
(Subject Enrichment)
4. Use all the words of the day into sentences of your own.(in language note book)
5. Make a magazine (scrap book or spiral bound) with the following pagewise :
 - Attractive cover page with innovative name
 - Advertisement
 - Crossword puzzle
 - Poster
 - Lost and found advertisement
 - Pictorial description of your favorite personality
 - Idioms and decent jokes
 - Depiction of cyber security and mobile etiquettes in cartoon form
 - Safety on roads (pictorial depiction)
 - Save Earth(pictorial depiction)

***Note : NOT A SINGLE WORD OF HINDI AND NO CUTTING AND PASTING**



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ग्रीष्मकालीन सत्रावकाशीय गृहकार्य

कक्षा- नवम

निर्देश:- 1) प्रश्न 1 व 2 व्याकरण की अभ्यास पुस्तिका में हल करें।

2) प्रश्न क्रमांक 3 का उत्तर A-4 पन्ने पर लिखकर सजाकर लिखें।

प्र. 1) (क) 'स्वच्छता अभियान' में अपने योगदान का वर्णन करते हुए पिता जी को पत्र लिखिए।

(ख) अपनी छोटी बहन को 'साइबर अपराध' से बचने के लिए निर्देश देते हुए पत्र लिखिए।

प्र. 2) (क) 'संविधान के प्रति हमारे कर्तव्य'। (80 शब्दों में अनुच्छेद लिखिए।)

(ख) प्रत्येक कार्य का एक उद्देश्य होना चाहिए। (80 शब्दों में अनुच्छेद लिखिए।)

प्र. 3) "देश प्रेम" पर लगभग 200 शब्दों में स्वरचित कहानी लिखिए।



ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN
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SUBJECT: MATHS
CLASS: IX

QUESTIONS ON LOGICAL THINKING(DO THIS IN A SEPARATE NOTEBOOK)

- Q1. At your skating party you noticed 30 legs on the outdoor rink. How many people and dogs are on the outdoor rink?
- Q2. A insect climbs a 10 m slippery rock in a minute and then slips down 9 m in the next minute. How long will it take him to climb a 30 slippery rock?
- Q3. '18 - 4' means 72; '19 ÷ 7' means 26; '17 x 5' means 12 and '15 + 3' means 5, then what does 240 + 6 - 5 ÷ 10 x 12 means ?
- Q4. If the symbol \$ (for the whole numbers) donotes 'add 5 to the first number and multiply by the double of the second'. For example :-
15 \$50 = (15 + 5) x (2 x 50) = 20 x 100 = 2000
Then what does 21 \$ 30 means ?

PRACTICE FOLLOWING QUESTION:

- Plot the points P(-4, 2) and determine the coordinates of the point Q if the line segment PQ is perpendicular to the x axis and is bisected by it.
- Find : $125^{-1/3}$
- Classify the given polynomial as rational or irrational:
(i) 1.01001001..... (ii) $\sqrt{\frac{12}{75}}$
- Find p (-1) for the polynomial $x^2 - x + 3$
- Simplify : $(3 + \sqrt{3})(2 - \sqrt{5})$
- Rationalise the denominator $\frac{1}{2-\sqrt{3}}$
- Mohan and Vicky has the same weight. If they each gain weight by 4 kg, how will their new weights be compared using Euclid's Axiom.
- Express $0.\overline{78}$ in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$
- Find the value of k if (x - 2) is a factor of polynomial $2x^3 - 6x^2 + 5x + k$.
- Factorise : $x^3 + 13x^2 + 32x + 20$

LAB ACTIVITY (DO THIS IN THE LAB MANUAL)

- Obtain a square root spiral of natural number by graduated strips.
- Represent the square root of a natural number experimentally.
- Verify the algebraic identity : $(a + b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$

INVESTIGATIVE PROJECT

Using a spreadsheet programme on a PC (computer) obtain the graph of the equation $ax^2 + bx + c = 0$ for a different values of a, b and c and note the interesting features and patterns.
(submit this project in the folder)



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HOLIDAY HOMEWORK

SESSION: 2017-18

SUBJECT: SCIENCE

CLASS: IX

IX(BIOLOGY)	<p>(1) Make a chart on Plant Cell, Animal Cell, Plant Tissue or Animal Tissue.</p> <p>(2) Find out the Discoverers of all cell organelles and tabulate your result.</p> <p>(3) Make a Question Bank of at least 10 questions from each lesson Cell and Tissue.</p> <p>(4) Try to solve maximum question from both lessons and come back with few interesting ones and discuss in class.</p> <p>(5) Keep some grains and water for the birds in your terrace and observe them</p>	<p>According to roll no.</p> <p>Do in file pages</p> <p>Do in thin notebook.</p> <p>Best question will get interesting prize.</p> <p>Value based activity</p>
PHYSICS	<p>(1) Find 10 applications of laws of motion other than given in book.</p> <p>(2) Practice the numerical of chapter 8 and 9 from exam idea.</p> <p>(3) Make a Question Bank of at least 10 question from each L –Motion And L- Forces and Laws of motion.</p>	<p>Do in file pages.</p> <p>Thin Copy.</p>
CHEMISTRY	<p>(1) Make a concept map of L-1 .</p> <p>(2) Research Project:- Report on Life history of Satyandra nath Bose.</p> <p>(3) Make a question bank of 10 questions from lesson 1.</p> <p>(4) Read and revise L-1.</p>	<p>Thin copy.</p> <p>Stick File.</p> <p>Thin Copy</p>



ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN
HOLIDAY HOMEWORK
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CLASS: IX

Guidelines:-

1. Under this activity you are requested to make a Scrapbook.

2. It should be of A-4 size.

3. Students should cut and paste and write views in not more than 30 words on following dates and topics:

- | | |
|--|---|
| • 01 st to 05 th June 2017 | Important Dehradun News |
| • 06 th to 08 th June 2017 | Important State News |
| • 09 th to 12 th June 2017 | Important National and International News |
| • 13 th to 15 th June 2017 | Important Sports News |
| • 15 th to 20 th June 2017 | Editorial of each day with highlighting the new words learnt. |
| • 21 st to 25 th June 2017 | Important articles on any subject. |
| • 26 th to 30 th June 2017 | Times Sudoku, Mindbender, Spellathon, Scramble |

- 1. Prepare an album on the life and career of Hitler.**
- 2. Model on Concentration camp of Hitler. (Watch movie "Life is Beautiful")**
- 3. Prepare a model on Indian Parliament .**
- 4. Prepare a model on Indian court of Justice.**