



# NORTH-EX PUBLIC SCHOOL

(SENIOR SECONDARY , AFFILITATED TO CBSE)

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## Winter Vacation Assignment 2016-17

### Class X

#### ENGLISH

1. Read your prescribed novel “The Story of my Life” and enlist some important events and also write some moral values the novel provides.
2. Take interviews of any ten neighbours/relatives and enlist the merit and demerits of the New Currency System recently introduced in India.
3. Make a poster on -“How to Make India - A Pollution Free Nation” .
4. Read English Daily Newspaper and Prepare a note on important news items related to Sports, Science and Politics.

#### MATHEMATICS

- I. Lab Activity: (i) To make a clinometer and use it to measure the height of an object.  
(ii) To get familiar with the idea of probability of an event through a double colour card experiment.
- II. Find the distance and section formula.
- III. Prove that the area of a triangle formed by the points  $(x_1, y_1)$ ,  $(x_2, y_2)$  and  $(x_3, y_3)$  is  $\frac{1}{2} \{ x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2) \}$ .
- IV. Find the value of k if the points A(2,3), B(4,k) and C(6,-3) are collinear.
- V. If A(-5,7), B(-4,-5), C(-1,-6) and D(4,5) are the vertices of a quadrilateral, find the area of quadrilateral ABCD.
- VI. Find the ratio in which the y axis divides the line segment joining the points (5,-6) and (-1,-4). Also find the point of intersection.

#### SCIENCE

- I. Make a working model. Also prepare a project report. Project will be assessed on the basis of :-

- Research
- Presentation
- Originality
- Reflection

II.

- a) Draw correct ray diagrams showing image formation by lenses for different positions of the object.
- b) Differentiate between real and virtual image.

- c) Discuss the nature, size and position of the images, formed by the convex/ concave lenses.
- d) State Cartesian sign conventions and explain its use by means of extensive illustrative examples.

III. Revise FA4 syllabus.

## **SOCIAL SCIENCE**

I. Report on Pipeline Transport(Odd Roll nos):-

By preparing the report the students will be able to

- Know about the different ways in which pipeline is used as a means of transport.
- Understand the significance of pipeline transport.
- Different kinds of pipelines used for transporting.
- Benefits of using pipelines.

Report on Ports(Even Roll nos):-

By preparing the report the students will be able to

- Locate the coast on the map.
- Reasons for its developments.
- Special characteristics features.
- Items handled for export and import.
- Hinterland
- Problems if any
- Its significance

II. Create a poster on topic : Consumer's rights and duties.

III. Project on First Aid

- a) Introduction
- b) Golden rules of First Aid.
- c) Action Plans.
- d) Fainting or losing consciousness - Do's and Don'ts
- e) Burn and its degree - Do's and Don'ts
- f) Frost Bite - Do's and Don'ts.
- g) Bleeding
- h) Electrocutation
- i) Snake bite - Do's
- j) Fractures and Sprains
- k) Poisoning - Do's and Don'ts
- l) Heat Stroke

Prepare a First Aid Kit

# Winter Vacation Holiday Homework

Class - X

Subject - Hindi

1. किन्हीं तीन स्वतंत्रता सैनानियों पर परियोजना तैयार कीजिए।
2. 'समास' विषय पर चार्ट तैयार कीजिए।
3. सैनिकों की भूमिका, बलिदान आदि का वर्णन करते हुए बाल्य कि हमारे मन में सैनिकों के प्रति किस प्रकार के भाव होते जाते हैं।
4. निम्नलिखित अतिरिक्त प्रश्नों के उत्तर लिखिए।
  - (क) 'आत्मज्ञान' कविता किस भाव से भरी हुई है? कविता का मुख्य भाव लिखिए।
  - (ख) हमें संकटों का सामना कैसे करना चाहिए। 'आत्मज्ञान' कविता के आधार पर बताइए।
  - (ग) लेखक के आम लोगों के बारे में क्या राय व्यक्त की है? 'आत्मज्ञान' के संदर्भ में बताइए।
  - (घ) टोपी को सरदियाँ बिना कैट के क्यों गुजारी पड़ी?
  - (ङ) इफ्फन को अपनी दादी से ज्यादा ध्यान क्यों छा?