CLASS XII (CHEMISTRY)

1. Select one topic for Investigatory Project as per CBSE norms and prepare a rough draft of the same.
2. Revise the following topics of Class XI for strengthening the concepts of class XII.
   (a) For chapter-1: Paramagnetic and diamagnetic behavior.

   (b) For Chapter-2: Concepts of solubility, boiling point, freezing point.

   (c) For Chapter-3: Galvanic cells, electrode potential, electro motive force, electrolysis

   (d) For Chapter-4: Law of mass action, equilibrium constant

   (e) For Chapter-5 and 6: Bond strength, bond length, bond enthalpy, electronegativity, electron gain enthalpy, electronegativity, atomic and ionic size. Variation of these properties down a group and across the period.

   (f) For Chapter-7: VSEPR theory and shapes of molecules.

   (g) For Chapter-9: Concept of hybridization.

   (h) For Organic Chemistry- Rules for IUPAC Nomenclature of organic compounds, electron displacement effects especially inductive effect and resonance effect, important properties of alkanes, alkenes and alkynes.

....

Kendriya Vidyalaya Kollam
English Holiday Homework (Core)
Class XII

Reading
1.Unseen passages-10
2.Passages Note making-5
Writing
1.Articles-3
2.Speech-2
3.Debate-2(for)+2(against)
4.Advertisement-5
5.Posters-5

Text books
1.Invisible man –Chapters 1-5
2.Vistas-1.The Enemy
       2.Evans tries an O' level

CLASS XII-HINDI

कक्षा बारहीं

.1निम्नलिखित विषयों पर फीचर लिखिए।

१. चुनाव में जातिवाद का प्रभाव

२. राजनीति और देशभक्ति

३. युवा पीढी और नव माध्यम

. 2निम्नलिखित विषयों पर फीचर लिखिए।

१. खेलकूद और स्वास्थ्य

२. संचार विप्लव

Holiday Homework Class XII

SUB: Maths

1.Revise the concepts of the following chapters from Class XI Textbook

- ❖ Relations and functions
- ❖ Trigonometric Functions
- ❖ Linear Inequalities
- ❖ Straight lines
- ❖ Conic Sections
- ❖ Introduction to Three Dimensional Geometry
- ❖ Limits and Derivatives
- ❖ Probability

HOLIDAY HOMEWORK

CLASS XII PHYSICS

1. Two point charges 0.2 C and 0.4C are placed 0.1m apart . Calculate the electric field at midpoint between the charges and at a point on the line joining the charges 0.05m away from 0.2C ?
2. Two point charges +16µC and -9 µC are placed 8cm apart in air. Determine the position of the point at which the resultant field is zero?
3. The sum of two point charges is 7 µC .They repel each other with a force of 1N when kept apart 30cm apart in free space .Calculate the value of each charge.
4. Two point charges placed at a distance r in air exert a force F on each other .At what distance will these charges experience the same force in a medium of dielectric constant k ?

5. Define electric field intensity at a point. Write its SI unit . If it is a vector quantity what is its direction?
6. Define electric flux .Write its SI unit . Is it a scalar or a vector quantity.
7. Define electric dipole moment .Write its SI unit .If it is a vector specify its direction.
8. What is an electric field line ? Write down the important properties of electric field lines.
9. Draw the electric field lines due to (a) point positive charge (b) an electric dipole
10. State and express Coulombs law in vector form
11. State and explain Gauss theorem
12. Prove the inverse square law dependence of electric field intensity due to a point charge using concept of electric field line.
13. Derive an expression for the electric field at a point due to a point charge
14. Derive expression for the electric field at a point along the (a) axial line and (b) equatorial line of an electric dipole
15. Explain what happens when an electric dipole is placed in an external (a) uniform electric field (b) non uniform electric field.

HEALTH & PHYSICAL EDUCATION

HOLIDAY HOMEWORK

CLASS XII

1)   Application of physics in the field of physical education?

BIOLOGY

CLASS XII

Recording of twelve experiments in the lab record book

CLASS XII

COMPUTER SCIENCE

1. Write 10 program illustrating the if statement?
2. Use switch case write any 5 programs?
3. Using for write any 10 programs?
4. Using while write any 10 programs?
5. Using do.. while any 10 programs?
6. Write any 5 programs using function?
7. Write any 5 programs using structure?
8. Using 1-dimensional array, write 10 programs?
9. Using 2-dimensional array, write 5 programs?