

**Holiday Home Work**  
**Winter Break 2017-18**  
**Class IX**

**MATHEMATICS**

1. DRIVE THE FORMULA FOR THE SURFACE AREA OF THE RIGHT CIRCULAR CONE
2. PROVE THAT MEDIANS OF A TRIANGLE INTERSECT EACH OTHER IN THE RATIO 2 : 1
3. THE SUM OF THREE ANGLES OF A TRIANGLE IS 180. PROVE THIS BY MAKING 5 DIFFERENT TRIANGLES.
4. THE PRODUCT OF TWO EVEN NATURAL NUMBERS IS EVEN. PROVE THIS
5. HUMANS ARE MAMMALS. ALL MAMMALS ARE VERTEBRATES, BASED ON THESE TWO STATEMENTS, WHAT CAN YOU CONCLUDE ABOUT HUMANS?
6. WHAT IS THE FALLACY IN THE COW'S REASONING?  
ALL DOGS HAVE TAILS  
I HAVE A TAIL  
THEREFORE I AM A DOG.

**SOCIAL SCIENCE**

1. Practice all maps that are given in all geography chapters and in Nazism and Rise Of Hitler
2. Write and learn about French revolution and Nazism in Germany.
3. Prepare 10 one marks question of every chapters of history , civics, geography and economics.
4. Do all question and answer of textbook of economics and learn it .
5. Define:-
  - a) forest law
  - b) jet stream
  - c) Mango shower
  - d) Democracy
  - e) Parliament
6. learn the chapter working of institutions and electoral politics of civics
7. Learn about the similarities and dissimilarity between the life of people of Indonesia and Bastar.

## SCIENCE

1. What is kinetic energy? Define formula for kinetic energy.
2. Give an account of Bohr's atomic model?
3. What do you mean by mole how many moles of atoms are there in:
  - a. 23g of Sodium atoms.
  - b. 2g of Oxygen atoms.
4. Write formula of:
  - a. Aluminum Chloride
  - b. Ammonium Sulphate
  - c. Calcium Oxide
  - d. Magnesium Chloride
  - e. Sodium Carbonate
5. Differentiate between:
  - a. Angiosperm & Gymnosperm
  - b. Monocot & Dicots
6. Make a table of symbol, atomic number & electronic configuration of first 20 elements.
7. What is AIDS? Name its causal organism.
8. Explain why prevention is better than cure?

## कक्षा- नवमी (संस्कृतम्)

- १ कारकविभक्तिसूत्रमधिकृत्यपीपीटीपरियोजनार्थनिर्मायत।।
- २ शतः १००पर्यन्तं फाइलपत्रेषुसंस्कृतेसंख्यात्मकशब्दाः लिखत।
- ३ पत्रलेखनचित्रमवलोक्यवाक्यनिर्माणयोः अभ्यासः करणीयः।
- ४ धातुरूपाणिलिखतफाइलपत्रेषुस्मरत - हन्, अस्, दा, दृश्, स्था, कृ, लभ् ।
- ५ शब्दरूपाणिलिखतस्मरत च--- वारि, अस्मद्, युष्मद्, भवत्, राजन्, पितृ, मातृ, किम् ( त्रिषुलिंगेषु )।  
डॉ. रामकुमारझाप्रशिक्षितस्नातकशिक्षक ( संस्कृतम् )। (प्रथमापाली) केन्द्रीयविद्यालयः सं. 2, दिल्लीछावनी