

## Summer Holiday Home Work Class IX

### Maths

To collect information for any of the following topics :

1. Identities  $(a+b)^3$ ,  $(a-b)^3$ ,  $a^3 - b^3$  etc.
2. Areas of parallelograms lying on the same base and between the same parallels.
3. Representation of irrational numbers on the number line
4. Square root spiral
5. Area of Trapezium
6. Snowflakes
7. Factorization of Polynomial
8. Theorems on circles
9. Coordinate Geometry
10. To find Centroid /Orthocenter/ circum centre/Incentre of a triangle and their uses in daily life
11. Patterns in numbers
12. Inequality in a triangle
13. Crossword Puzzle
14. Probability
15. Hanoi's Tower
16. Volume and Surface area of a cylinder/cone sphere
17. Comparison of volume of a cone and cylinder
18. Vedic Maths
- Any other topic related to class IX syllabus

### Science

Students can work in pairs on any of the following given topics for making models/projects/research work. Only biodegradable material will be used. They are to collect the information and materials for the chosen project during holidays, but final assembling will be done in the school only.

Topics – Food & Technology, Energy, Communication, Universe, Human Welfare, Teaching Aids, Science & Technology, Robotics, Sustainable Development

**Note :- Models will be made in school students need to collect the information only.**

**Social Science** - Collect information & pictures of any one disaster:- 1.Fire; 2.Accidents; 3.Flood; 4.Earthquake; 5. Landslide; 6. Volcanic eruption; 7. Cyclones; 8.Drought.

**हिन्दी** – हिन्दी के बारह महीनों के नाम बताते हुए हिन्दी पंचांग तथा प्रमुख पर्व का नाम लिखना है।

**English** : Task- 1 Gulliver Travels / Based on Three men in a Boat . Read the I part of the novel (Summary) and write about two character of your choice in file papers.

Task -2 read next two chapters from fiction part and write their summary in your own words. Select at least 50 words, write their meaning besides the words given in the chapters.

Task – 3 You Visited to some places during summer. break write your experience in the form of a paragraph.

**Dear Parents**

Summer Vacation(for 1<sup>st</sup> to X) **10 May,2017(Wednesday) to 17 June, 2017(Saturday).**

**School will reopen on 19 June,2017(Monday)**

कक्षा 1 से X का ग्रीष्मावकाश दिनांक 10 मई (बुधवार) से 17 जून 2017(शनिवार)तक रहेगा।

स्कूल दिनांक 19 जून 2017(सोमवार) से यथा समय खुलेगा।

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