

SAINIK SCHOOL KALIKIRI

HOLIDAY HOMEWORK FOR WINTER VACATION

CLASS 8- MATHEMATICS

Select any one of the following project from the following list and make necessary models and submit a report.

- (a) Make magic squares of dimensions 3 by 3, 4 by 4 and 5 by 5 (one each)
- (b) Collect information about any three Indian Mathematicians and make a report highlighting their contributions.
- (c) Collect information about Vedic Math and techniques used in Vedic Math. Make a report explaining five techniques with examples.
- (d) Make nets of various 3-D Shapes and verify the Euler's Formula.
- (e) Study about π and make a report on its history and relevance to the today's world.
- (f) Study your surroundings and identify the real life applications mathematics in your daily activities. Illustrate with five examples.
- (g) Visit nearby Post Office/Bank and interact to find out applications of Simple Interest and Compound Interest. Make a report.
- (h) Make use chart paper/graph paper to geometrically interpret the meaning of multiplication of polynomials by polynomials. Give examples and illustrate with the help of learning aids.
- (i) Make a presentation on real life applications mathematics in daily life.
- (j) Study about Centres (Centroid, Incentre, Circumcentre and Orthocentre) of Triangle and make a poster.
- (k) Create concept map on Algebra.

SAINIK SCHOOL KALIKIRI

HOLIDAY HOMEWORK FOR WINTER VACATION

CLASS 9- MATHEMATICS

- Solve any 10 word problems given in the Exemplar Book from the following chapters.
- Chapter 1 - Number Systems
 - Chapter 2 - Polynomials
 - Chapter 3 - Coordinate Geometry
 - Chapter 4 - Linear Equations in Two Variables
 - Chapter 5 - Introduction to Euclids Geometry
 - Chapter 6 - Lines and Angles
 - Chapter 7 - Triangles
 - Chapter 8 - Quadrilaterals
 - Chapter 9 - Areas of Parallelograms and Triangles