Math Club 5

- Math Club for Grades 4 6
- Develop creative problem-solving skills.
- Students participate in MOEMS Math Olympiads.
- Introduce advanced mathematical concepts in probability, combinatorics and codes and ciphers.
- Students immerse in mathematics by working on an investigative project.

Instructor:	Vibha Mane
Mobile:	631-682-1710
Email:	mane@schoolnova.org



MOEMS Math Olympiad

- Math Olympiads for Elementary and Middle School (MOEMS).
- Strengthen problem solving skills.
- Practice problems in-class.
- Olympiad packets for practice.
- Five contests, held once a month, from November through March.
- All Math Club students are invited to participate.



Advanced Math Concepts - Probability

- Counting principles, permutations, combinations, partitioning.
- Basic probability concepts.
- Bernoulli and binomial trials.
- Experiments with dice and coins.
- Experiments illustrating law of large numbers.
- Story of Jacob Bernoulli.

ARTIS CONJECTANDI PARS PRIMA, Complettens Tractatum Hugenii de Ratiociniis in Ludo Alex, Cum Annotationibus JACOBI BERNOULLI.

<u>新教育教育部院院院院校会会会会会会会会会</u>

CHRIST. HUGENII FRANC. SCHOOTENIUM Prefatio.



Um in editione elegantifimorum ingenii Tui monumentorum, quam præ manibus nunc habes, Vir Clariffime, id inter cœtera Te spectare sciam, ut varietate rerum, quarum tractationem inftituifti, oftendas quàm latè ie protendat divina Analytices fcientia, facile intelligo etiam illa plurimum propolito Tuo infervire posfe, qua de Alea Katiociniis con-

Advanced Math Concepts - Codes and Ciphers

- Reduce numbers modulo a positive integer.
- Convert numbers from decimal to base-26.
- Kids-RSA: middle school version of encryption and digital signature.
- Story of Ramanujan



Investigative Projects - I

- Investigate and prepare a presentation on the life of a famous mathematician.
- Study early life, struggles, famous work and fun facts.
- Students work in teams of three.

Investigative Projects - II



Investigative Projects - III

Origin

Pierre De Fermat was born in 1607. He was born in a commune, Beaumont-de-Lomagne, France. His mother's name is Claire De Long, his father's name is Dominique Fermat. Pierre de Fermat was a French lawyer at the Parlement of Toulouse, France, and a mathematician who is given credit for early developments that led to infinitesimal calculus, including his technique of adequality. He studied in the fields of Mathematics and Law. **Beautique 1.117** France 1117 Sectoreur alleut l'inferent : son a lite en francente l'inferent et par et par est experience aux entre le construction en l'engelance alleut fra present et en est entre en entre en entre en entre en entre en entre entre present et l'inference en entre entre en entre entre entre entre entre entre present entre present entre present entre entr

Accounting, Descarded had there of the same parts primetiple of analytic sequencies and the had there of the same parts of the primetiple of analytic there are a sequence of the same parts of the same parts of the same parts there are a sequence of the same parts of the same parts of the second parts of the same sequence and the second parts of the same parts of the same parts of the same sequence of the second parts of the same parts of the same parts of the same there have the parts of the same parts of the same parts of the same the same parts of the same part of the same parts of the same parts of the same the same parts of the same part of the same parts of the same parts of the same the same parts of the same part of the same parts of the same parts of the same the same parts of the same part of the same parts of the same parts of the same the same parts of the same part of the same parts of t

He single managed and account of the second second





The definition of the control of th

A A HATH

Investigative Projects - IV



Investigative Projects - V



Investigative Projects - VI



Fun Stuff - Games











Fun Stuff - Movies

4K ULTRA HD + BLU-RAY" + DIGITAL HANKS BACON PAXTON SINISE HARRIS APOLLO 13







C DESERVICES AND A CONTRACT CONTRACT CONTRACT AND A CONTRACT AND A