



Cheenta Academy
for Olympiad & Research

Olympiad and School Research - Webinar



Dr. Ashani Dasgupta

PhD in Mathematics from
University of Wisconsin-Milwaukee.

Published research in London
Mathematical Society's Journal of
Topology.

Resource Booklet on Books, Ideas



Path to Ivy League



Olympiad



Leadership



Research



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Math Book Recommendations

for Grades 1 to 6

Choice of book is a very sensitive issue. It is critical to choose the right ones. Books may either inspire students or drive them away.

Rule of the thumb: Choose books authored by real mathematicians and scientists who have worked in the field of innovation. Do not use 'manual' type books peddled by publication houses who are hiring authors to address market demand. Here are some examples that we recommend in our programs. New books are suggested almost every month.



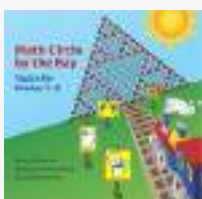
Math from Three to Seven: The Story of a
Mathematical Circle for Preschoolers

Alexander Zvonkin



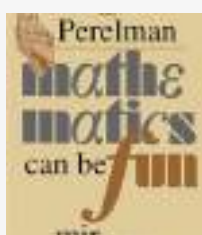
Math Circles for Elementary School
Students

Natasha Rozhkovskaya



Math Circle by the Bay: Topics for Grades
1-5

**Laura Givental, Maria Nemirovskaya, Ilya
Zakharevich**



Mathematics can be fun

Yakov Perelman



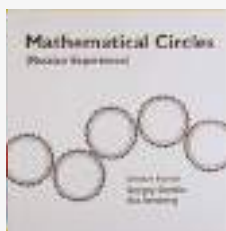
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Math Book Recommendations

for Grades 7 & 8

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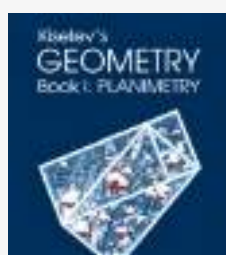
Mathematical Circles (Russian Experience)

Dmitry Fomin, Sergey Genkin, Ilia Itenberg



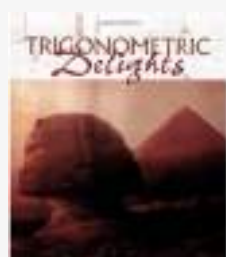
Algebra

Alexander Shen and Israel Gelfand



Kiselev's Geometry: Planimetry

Alexander Givental



Trigonometric Delights

Eli Maor



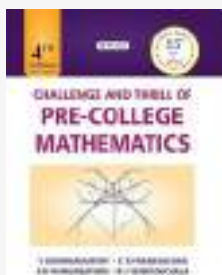
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Math Book Recommendations

for Grades 9 to 12

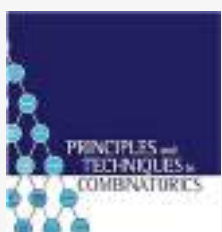
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Challenge and Thrill of Pre-College
Mathematics

**V Krishnamurthy, C R Pranesachar, K N
Ranganathan, B J Venkatachala**



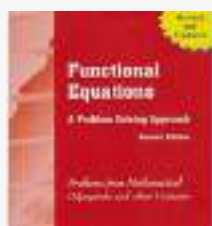
Principles and Techniques in
Combinatorics

Chuan Chong Chen, Khee-meng Koh



Complex Numbers from A to ...Z

Titu Andreescu, Dorin Andrica



Functional Equations, A Problem Solving
Approach

B.J. Venkatachala



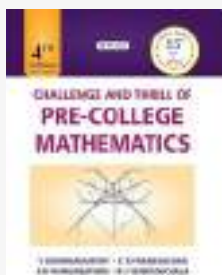
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Math Book Recommendations

for ISI, CMI Entrance

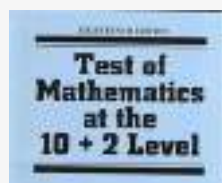
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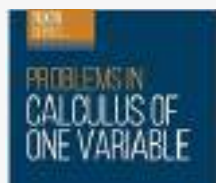
Challenge and Thrill of Pre-College
Mathematics

**V Krishnamurthy, C R Pranesachar, K N
Ranganathan, B J Venkatachala**



Test Of Mathematics At The 10+2 Level

Indian Statistical Institute



Problems In Calculus in One Variable.

I.A. Maron



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Physics Book Recommendations

for Grades 5 to 7

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The Magic of Reality

Richard Dawkins



Mr Tompkins in Paperback

George Gamow



Physics can be Fun

Yakov Perelman

Build a Lab at Home

Physics needs to be *hands on*.



Gleam in the eye

**(Authors) Manish Jain, Ravi Sinha, (Artist)
Nidhi Gupta**



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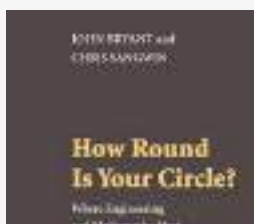
Physics Book Recommendations

for Grades 8 to 10



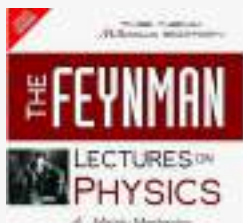
Physics can be Fun

Yakov Perelman



How Round Is Your Circle?: Where
Engineering and Mathematics Meet

John Bryant, Chris Sangwin



The Feynman Lectures on Physics
(Volume I)

Richard Feynman

Simulated and Computational Experiments
Useful for Cheenta's Research Training Workshops on Physics



Algodoo



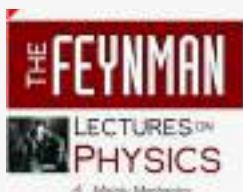
Stellarium



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Physics Book Recommendations

for Grades 11-12



The Feynman Lectures on Physics

Richard Feynman



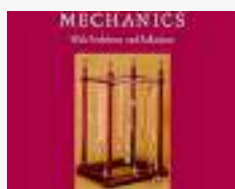
Concepts of Physics, Volume 1 & 2

H.C. Verma



Physics

Halliday, Resnick, and Krane



Introduction to Classical Mechanics

David Morin



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Computer Science Recommendations

Grades 4 - 6



(For Parents) Mindstorms: Children, Computers, and Powerful Ideas

Seymour Papert



Alice is an innovative block-based programming environment that makes it easy to create animations, build interactive narratives, or program simple games in 3D.

Grades 7 - 12



Programming Challenges: The Programming Contest Training Manual

Steven S. Skiena, Miguel A. Revilla



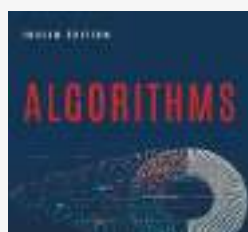
Looking for a challenge?

Krzysztof Diks



Algorithm Design

Jon Kleinberg, Eva Tardos



Algorithms

Sanjoy Dasgupta, Christos Papadimitriou, Umesh Vazirani



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Cheenta Team has 52 members

Outstanding researchers, olympians from the
premier universities in India, US, Europe



Dr. Ashani Dasgupta

PhD in Mathematics from University
of Wisconsin-Milwaukee.

Published research in London
Mathematical Society's Journal of
Topology.



Srijit Mukherjee

(Pursuing) PhD in Statistics from
Pennsylvania State University.

B.Stat & M.Stat from Indian
Statistical Institute.



Dr. Sourayan Banerjee

PhD in Mathematics from Indian
Institute of Science, Education &
Research.

Research Fellow at Indian Institute
of Technology, Kanpur



J.V. Raghunath

B.Tech and M.Tech from Indian
Institute of Technology, Madras

Olympiad coach and research
associate at Cheenta



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