

IMSA Information Resource Center

Mathematics

A Research Guide to get you started

Finding math materials

BROWSING: *How Mathematics Dewey numbers work:*

510.1	Philosophy & theory	514	Topology
511	General principles of math	515	Analysis & calculus
512	Algebra	516	Geometry
513	Arithmetic	519	Probabilities, statistics
793.74	Math games & recreations	794.1	Chess

Mathematics applied to a topic may be numbered with that subject number, rather than math. For example, most logic books are in Philosophy at 160 Logic

ILLINET ONLINE: *How Mathematics Subject headings work:*

Mathematics in an Any Word Anywhere search gives hundreds of titles
Mathematics in a Browse Subject search organizes the titles by subject

Or use specific headings:

Number theory Geometry Topology Knot theory Lattice theory Probabilities etc.

Some Reference background

- R 510.3 NARI WORL 2001 World of Mathematics. 2 vols.
R 510.9 GRAT COMP 1994 Companion Encyclopedia of the history and philosophy of
the mathematical sciences. 2 vols.
R 516 GORI FACT 2003 Facts on File Geometry Handbook

Some circulating books

- 510 ENGQ MATH 2001 Mathematics Unlimited--2001 and beyond/ Bjorn Engquist
510 CAST KNOT 2000 Five more golden rules: knots, codes, chaos and other
great theories... / John Casti
510.76 KUCZ INTE 2003 International Mathematics Olympiads / Martin Kuczma
510 STEW MAGI 1998 The Magical maze / Ian Stewart
510.1 HOFES ETER 1999 Godel, Escher, Bach: an eternal golden braid / Hofstadter
510.82 NEWM 1956 World of mathematics, 4 volumes / James Newman
511 SACK MATH 2003 Mathematical logic in the 20th century / Gerald Sacks
511.6 BONA WALK 2000 A walk through combinatorics: introduction to enumeration
512.73 DERB PRIM 2003 Prime Obsession / John Derbyshire
512.74 SINGFERM1998 Fermat's enigma / Simon Singh
513 BUNC KING 2000 Kingdom of infinite number: a field guide / Bryan Bunch
513 SEIF ZERO 2000 Zero: the biography of a dangerous idea / Charles Seife

514 COME CALC 2002 Calculus: the elements / Michael Comanetz
515.63 LEBE TENS 2003 Tensor analysis / Lebedev & Cloud

516 KAPP CONN 2001 Connections: the geometric bridge between art and science / Jay Kappraff
516.1 HARG SYMM 1994 Symmetry / Istvan & Magdolna Hargittai
516.15 PICK CHAO 1994 Chaos in wonderland / Clifford Pickover
519.5 GIBI STAT 2004 Statistics demystified / Stan Gibilisco

Some math recreations

793.94 GARD COLO 2001 The Colossal book of Mathematics / Martin Gardner
793.94 PICK WOND 2001 Wonders of numbers / Clifford Pickover

Some biographies

R 510.922 YOUN NOTA 1998 Notable Mathematicians
510.92 REID JULI 1996 Julia: a life in mathematics / Constance Reid
510.92 NASH NASA 1999 A Beautiful mind / Sylvia Nasar
510.92 LOVE STEI 1985 Ada: a life and a legacy / Dorothy Stein
510.92 RAMA KANI 1991 Man who knew infinity: a life of the genius Ramanujan

Some fun reads

510.79 OLSOCOUN2004 Count down: six kids vie for glory at the world's toughest math competition / Steve Olson
F ENZE NUMB 1998 The Number Devil / Hans Magnus Enzensberger
530.11 ABBO FLAT 1991 Flatland: a romance of many dimensions / Edwin Abbott
510 STEW FLAT 2001 Flatterland: like Flatland, only more so / Ian Stewart
510 ACHE 1089 2002 1089 and all that / David Acheson
510 PAUL MATH 1995 A mathematician reads the newspaper / John Allen Paulos

Videos

V 510 BLAT FOR 1987 For all practical purposes: (26 programs)
V 519.5 AGAI 1989 Against all odds: inside statistics (26 programs)

Hard Copy Journals

Chance: a magazine of the American Statistical Association
School Science and Mathematics

IRC Online databases, through the IRC homepage
<http://staff.imsa.edu/irc/reference/subscriptions.html>

EBSCOhost, Electric Library, FirstSearch, InfoTrac, JStor, and Science Direct include mathematics journals, accessible anywhere on campus.