



Colegio de San Juan de Letran
Dominican Avenue, Abucay, Bataan
Library and Media Services

RESEARCH GUIDE:

MATH 10

TABLE OF CONTENTS

I. Scope Note

II. Search Aids

III. Information Resources

A. Library Resources

a. E-Journals

b. E-Theses

B. Open Access

a. Free E-Books

b. Free E-Journals

c. Free E-Theses

C. Professional Organizations

D. Other Related Web Portals

E. Related Research Guides

IV. Tutorials

RESEARCH GUIDES

INTEGRATED MATH

I. SCOPE NOTE

Integrated mathematics is the term used to describe the style of mathematics education which integrates multiple strands of mathematics. mathnasium.com

II. SEARCH AIDS (BT: Broader Term, RT: Related Term, NT: Narrow Term)

BT:

- Mathematics

RT:

- Algebra
- Geometry
- Probability
- Statistics

NT:

- Sequences
- Arithmetic
- Geometric
- Harmonic
- Fibonnaci Sequence
- Synthetic Division
- Long Division
- Polynomials
- Circle
- Remainder Theorem
- Factor Theorem
- Principle of Counting
- Combination
- Permutation

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

Note: For the appropriate access credentials, please contact the Letran Bataan Library

➤ E-JOURNALS

- Mathematics Teacher. https://www.proquest.com/publication/publications_41299

- Theory of Probability and its Applications.
https://www.proquest.com/publication/publications_666297
- Acta Mathematica Sinica. English Series.
https://www.proquest.com/publication/publications_54875
- The Mathematics Enthusiast.
https://www.proquest.com/publication/publications_2030106
- Teaching Mathematics and Computer Science.
https://www.proquest.com/publication/publications_5083799
- International Journal for Lesson and Learning Studies.
https://www.proquest.com/publication/publications_1396353
- Mathematics Teaching in the Middle School.
https://search.proquest.com/central/publication/publications_32879
- Mathematics and Computer Education.
https://search.proquest.com/central/publication/publications_35418
- The American Mathematical Monthly.
https://search.proquest.com/central/publication/publications_47349
- Gazette - Ontario Association for Mathematics.
https://search.proquest.com/central/publication/publications_43656

➤ E-THESES

- Spjut, R. W. (2020). Roots and critical points of complex polynomials: Applications of algorithms in real algebra, moment theory, convex analysis, optimization, and positive polynomials to a conjecture in pure mathematics (Order No. 27997138). Available from ProQuest Central. (2446702923). Retrieved from <https://www.proquest.com/dissertations-theses/roots-critical-points-complex-polynomials/docview/2446702923/se-2?accountid=190548>
- Weber, N. A. (2019). Perceptions of self-efficacy in high-school geometry students (Order No. 13883365). Available from ProQuest Central. (2276828187). Retrieved from <https://www.proquest.com/dissertations-theses/perceptions-self-efficacy-high-school-geometry/docview/2276828187/se-2?accountid=190548>
- Thomack, A. (2017). Random harmonic polynomials (Order No. 10681500). Available from ProQuest Central. (2020850978). Retrieved from <https://www.proquest.com/dissertations-theses/random-harmonic-polynomials/docview/2020850978/se-2?accountid=190548>
- Kileel, J. D. (2017). Algebraic geometry for computer vision (Order No. 10282753). Available from ProQuest Central. (1924728310). Retrieved from <https://www.proquest.com/dissertations-theses/algebraic-geometry-computer-vision/docview/1924728310/se-2?accountid=190548>
- Harvill, E. L. (2011). High school math curriculum, students' course selection and education outcomes (Order No. 3485609). Available from ProQuest Central. (908431969). Retrieved from <https://search.proquest.com/docview/908431969?accountid=190548>
- Yi, S. (2018). Postsecondary stem paths of high-achieving students in math and science: A longitudinal multilevel investigation of their selection and persistence (Order No. 10829155). Available from ProQuest Central. (2103926544). Retrieved from <https://search.proquest.com/docview/2103926544?accountid=190548>
- Chen, K. T. (2016). Using LASSO to calibrate non-probability samples using probability samples (Order No. 10153157). Available from ProQuest Central. (1817403943). Retrieved from <https://search.proquest.com/docview/1817403943?accountid=190548>

- Jendraszek, P. A. (2008). Misconceptions of probability among future teachers of mathematics (Order No. 3299270). Available from ProQuest Central. (304623888). Retrieved from <https://search.proquest.com/docview/304623888?accountid=190548>
- Palmer, T. (2005). The rhetoric of probability mathematics (Order No. 3310328). Available from ProQuest Central. (305006385). Retrieved from <https://search.proquest.com/docview/305006385?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Krishnamoorthy, Vinod (2018). Competitive math for middle school: algebra, probability and number theory. Singapore: Pan Stanford Publishing Pte.Ltd. <https://www.pdfdrive.com/competitive-math-for-middle-school-algebra-probability-and-number-theory-e158234147.html>
- Libby, Jim (2017). Math for real life: Teaching practical uses for algebra, geometry and trigonometry. Jefferson, NC: McFarland Company. <https://www.pdfdrive.com/math-for-real-life-teaching-practical-uses-for-algebra-geometry-and-trigonometry-e176119070.html>
- Fine, Benjamin, Gaglione, Anthony, Moldenhauer, Anja, Rosenberger, Gerhard, Spellman, Dennis (2017). Algebra and number theory. Berlin: Walter de Gruyter. <https://www.pdfdrive.com/algebra-and-number-theory-e188597312.html>
- Suhov, Yuri, Kelbert Mark (2014). Probability and statistics by example, volume 1: Basic probability and statistics (2nd ed). UK: Cambridge University Press. <https://www.pdfdrive.com/probability-and-statistics-by-example-volume-1-basic-probability-and-statistics-e166589935.html>
- Hartshorn, Scott (n.d.). Probability: A beginner's guide to permutations and combinations. (n.p.). <https://www.pdfdrive.com/probability-a-beginners-guide-to-permutations-and-combinations-e186700466.html>
- Lang, Serg, Murrow, Gene (1988). Geometry: a high school course (2nd ed.). New York: Springer Science+Business Media. <https://www.pdfdrive.com/geometry-a-high-school-course-e157703589.html>
- Linde, Werner. (2016). Probability Theory A First Course in Probability Theory and Statistics. Boston: De Gruyter. <https://www.pdfdrive.com/probability-theory-a-first-course-in-probability-theory-and-statistics-d183875448.html>
- Durrett, Richard. (2010). Probability: theory and examples, 4th edition. Cambridge: Cambridge University Press. <https://www.pdfdrive.com/probability-theory-and-examples-fourth-edition-e7483559.html>
- Lipshultz, Seymour. (2004). <https://www.pdfdrive.com/schaums-outline-of-theory-and-problems-of-probability-d17388024.html>
- Kobayashi, Hisashi. (2012). Probability, Random Processes, and Statistical Analysis. Cambridge: Cambridge University Press. <https://www.pdfdrive.com/probability-random-processes-and-statistical-analysis-applications-to-communications-signal-processing-queueing-theory-and-mathematical-finance-d161961920.html>
- Shynk, John Joseph. (2012). Probability, random variables, and random processes: theory and signal processing applications. New Jersey: John Wiley & Sons, Inc. <https://www.pdfdrive.com/probability-random-variables-and-random-processes-theory-and-signal-processing-applications-d176028882.html>

➤ FREE E-JOURNALS

- International Journal of Mathematics and Mathematical Science. www.hindawi.com
- International Electronic Journal of Mathematics Education. <https://www.iejme.com/>
- Journal of Algebra <https://www.sciencedirect.com/journal/journal-of-algebra>
- Journal of Geometry and Physics <https://www.sciencedirect.com/journal/journal-of-geometry-and-physics>
- The Open Mathematics, Statistics, and Probability Journal. <https://www.benthamopen.com/TOSPJ/home/>
- Journal of Theoretical Probability. <https://www.springer.com/journal/10959>
- Electronic Journal of Probability. <https://imstat.org/journals-and-publications/electronic-journal-of-probability/>
- Probability Surveys. <https://www.i-journals.org/ps/>

➤ FREE E-THESES

- Limanta, K. M. (2017). An algebraic approach to harmonic polynomials on S^3 . (Masters Thesis). University of New South Wales. Retrieved from <https://unsworks.unsw.edu.au/fapi/datastream/unsworks:45310/SOURCE02?view=true>
- Sturm, S. (2016). The great divide: A study that examines the understanding of long division across multiple generations. (Masters Thesis). SUNY College at Fredonia. Retrieved from <https://dspace.sunyconnect.suny.edu/handle/1951/71112>
- Scheibelhut, K. (2013). Polynomials that are integer-valued on the Fibonacci numbers. (Masters Thesis). Dalhousie University. Retrieved from <http://hdl.handle.net/10222/35316>
- Meinke, A. M. (2011). Fibonacci numbers and associated matrices. (Masters Thesis). Kent State University. Retrieved from http://rave.ohiolink.edu/etdc/view?acc_num=kent1310588704
- Talawat, P. (2014). Thai Secondary School Students' Probability Misconceptions: The Impact of Formal Instruction. (Thesis). University of California – eScholarship, University of California. Retrieved from <http://www.escholarship.org/uc/item/24x973t7>
- Forgo, Vincent Z, M. (2017). A Distribution of the First Order Statistic When the Sample Size is Random. (Master's Thesis). East Tennessee State University. Retrieved from <https://dc.etsu.edu/etd/3181>
- Njenga, D. N. (2010). Seventh-grade curriculum in probability (a guide for teachers). (Master's Thesis). Louisiana State University. Retrieved from etd-08192010-132021 ; https://digitalcommons.lsu.edu/gradschool_theses/4286
- Tamturk, M. (2018). Ruin probability via several numerical methods. (Doctoral Dissertation). University of Leicester Retrieved from <https://hdl.handle.net/2381/42476>

C. PROFESSIONAL ORGANIZATIONS

- Mathematical Society of the Philippines. <https://www.mathsociety.ph/>
- Mathematics Teachers Association of the Philippines. <https://www.facebook.com/MTAPBOARD/>
- American Mathematical Society. <https://www.ams.org/>
- National Council of Teachers of Mathematics. <https://www.nctm.org/>
- Association of Teachers of Mathematics. <https://www.atm.org.uk/>
- Bernoulli Society for Mathematical Statistics and Probability. <http://www.bernoulli-society.org/>
- Applied Probability Society. <https://connect.informs.org/aps/home>
- American Statistical Association. <https://www.amstat.org/>

- Institute of Mathematical Statistics. <https://imstat.org/>
- Royal Statistical Society. <https://rss.org.uk/>

D. OTHER RELATED WEB PORTALS

- Math is Fun. <https://www.mathsisfun.com/data/probability.html>
- Khan Academy. <https://www.khanacademy.org/math/statistics-probability>
- Seeing Theory. <https://seeing-theory.brown.edu/>
- Probability Course. <https://www.probabilitycourse.com/>
- Common Sense Media. <https://www.common Sense Media.org/lists/statistics-and-probability-apps-games-and-websites>

E. RELATED RESEARCH GUIDES

- Western Michigan University. <https://libguides.wmich.edu/statistics>
- The Tufts Libraries. https://researchguides.library.tufts.edu/statistics_probability
- Boston College Library. <https://libguides.bc.edu/NURS9720>

IV. TUTORIALS

- The factor theorem. <https://www.youtube.com/watch?v=JAuzVViQ5as>
- The remainder theorem. <https://www.youtube.com/watch?v=iu5vOZyTN1M>
- Fibonacci triangle and its applications. <https://www.youtube.com/watch?v=qxu6BWxp5BA>
- Long division and synthetic division. <https://www.youtube.com/watch?v=Hb6HIVF7D0E>
- Geometric sequence. <https://www.youtube.com/watch?v=ykSa6LnmE6Y>
- Geometric mean. https://www.youtube.com/watch?v=sRubMW2_D2s
- Arithmetic sequence, mean and series. <https://www.youtube.com/watch?v=eTSNL8PDSNQ>
- Combination. <https://www.youtube.com/watch?v=gqO5hxYTMxM&list=RDCMUCYu6jnLKDVLWJxkPP12hUYw&index=2>
- Fundamental principles of counting. https://www.youtube.com/watch?v=DJPTGQJ_kf4&list=RDCMUCYu6jnLKDVLWJxkPP12hUYw&index=1
- Introduction to long division (remainders). <https://www.khanacademy.org/math/arithmetic-home/multiply-divide/mult-digit-div-2/v/division-2>
- Stat Trek. <https://stattrek.com/tutorials/probability-tutorial.aspx>
- Tutorials Point. <https://www.tutorialspoint.com/statistics/probability.htm>
- Intelli Paat. <https://intellipaat.com/blog/tutorial/statistics-and-probability-tutorial/introduction/>
- Tutors 4 You. <https://tutors4you.com/probabilitytutorial.htm>
- Probability Tutorials. <http://www.probability.net/>

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