



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

## **RESEARCH GUIDE: MATHEMATICS 3**

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## RESEARCH GUIDES

### MATHEMATICS 3

#### I. SCOPE NOTE

*The course focuses on four critical areas. First, the students will extend their understanding of baseten notation. This includes the idea of counting in fives and tens. Students should understand multidigit numbers by understanding that the digits in each place represent amounts of thousands, hundreds, tens, or ones. Second, the students will become proficient in addition and subtraction. They will now be able to add and subtract numbers up to 1000 by applying their understanding of addition and subtraction.*

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

##### BT:

- Mathematics

##### RT:

- Counting
- Addition
- Subtraction
- Division
- Ordinal Numbers
- Measurement
- Time
- Geometry
- Pre-Algebra
- Data
- Estimation
- Money

##### NT:

- Skip Counting
- Cumulative Property of Additions
- Ordinal Numbers
- Cardinal Numbers
- Place Value
- Odd Numbers
- Even Numbers
- Length
- Estimation
- Mass
- Linear Scale
- Clocks
- Shape
- Flip
- Turn

- Circle
- Symmetry
- Pattern
- Pictographs
- Bar graph
- Currencies of the World

### III. INFORMATION RESOURCES

#### A. LIBRARY RESOURCES

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

#### ➤ E-JOURNALS

- International Journal of Mathematical Education in Science and Technology.  
[https://www.proquest.com/central/publication/publications\\_176146](https://www.proquest.com/central/publication/publications_176146)
- Journal for Research in Mathematics Education.  
[https://www.proquest.com/central/publication/publications\\_21451](https://www.proquest.com/central/publication/publications_21451)
- The Arithmetic Teacher.  
[https://search.proquest.com/central/publication/publications\\_815](https://search.proquest.com/central/publication/publications_815)
- Teaching Children Mathematics.  
[https://search.proquest.com/central/publication/publications\\_32876](https://search.proquest.com/central/publication/publications_32876)
- School Science & Mathematics.  
[https://search.proquest.com/central/publication/publications\\_41443](https://search.proquest.com/central/publication/publications_41443)
- Gazette – Ontario Association for Mathematics.  
[https://search.proquest.com/central/publication/publications\\_43656](https://search.proquest.com/central/publication/publications_43656)
- Mathematics Education Research Journal.  
[https://search.proquest.com/central/publication/publications\\_2034510](https://search.proquest.com/central/publication/publications_2034510)

#### ➤ E-THESES

- Fuson, K. C., Carroll, W. M., & Drucek, J. V. (2000). Achievement results for second and third graders using the standards-based curriculum everyday mathematics. Journal for Research in Mathematics Education, 31(3), 277. Retrieved from <https://www.proquest.com/scholarly-journals/achievement-results-second-third-graders-using/docview/223508918/se-2?accountid=190548>
- Voorhees, D. R. (2008). Classroom environment and its effect on student achievement in a 30RW1S34RfeSDcfkexd09rT3rd1RW1S34RfeSDcfkexd09rT3 grade mathematics classroom: An autoethnographic study (Order No. 3326500). Available from ProQuest Central. (304447956). Retrieved from <https://www.proquest.com/dissertations-theses/classroom-environment-effect-on-student/docview/304447956/se-2?accountid=190548>
- Yates, T. H. (2014). Teachers' self-efficacy in mathematics and teaching mathematics, instructional practices, and the Mississippi curriculum test, second edition for mathematics in grades 3-5 (Order No. 3584546). Available from ProQuest Central. 1535277812). Retrieved from <https://search.proquest.com/docview/1535277812?accountid=190548>

- (Voorhees, D. R. (2008). Classroom environment and its effect on student achievement in a 30RW1S34RfeSDcfkexd09rT3rd1RW1S34RfeSDcfkexd09rT3 grade mathematics classroom: An auto ethnographic study (Order No. 3326500). Available from ProQuest Central. (304447956). Retrieved from <https://search.proquest.com/docview/304447956?accountid=190548>
- Meadows, J. R. (2015). More than accountability: Understanding teacher perceptions of evaluation, observation, and feedback in grades 3-8 mathematics instruction (Order No. 3740835). Available from ProQuest Central. (1753162556). Retrieved from <https://search.proquest.com/docview/1753162556?accountid=190548>
- Shrivah, V. (2016). Role of higher education in training teachers to teach common core state standards in grade 3-8 mathematics in public elementary and middle schools (Order No. 10244942). Available from ProQuest Central. (1865316757). Retrieved from <https://search.proquest.com/docview/1865316757?accountid=190548>
- Jones, J. W. (2016). A quantitative study: The relationship between school-wide instructional practices, teacher beliefs, and growth mindset and value-added student growth in elementary mathematics for grades 3-5 (Order No. 10243377). Available from ProQuest Central. (1849023573). Retrieved from <https://search.proquest.com/docview/1849023573?accountid=190548>
- Taylor-Buckner, N. (2014). The effects of elementary departmentalization on mathematics proficiency (Order No. 3620008). Available from ProQuest Central. (1537430229). Retrieved from <https://search.proquest.com/docview/1537430229?accountid=190548>
- Mernacaj, M. (2011). The reforms in mathematics education for grades 1 through 12 in Albania from 1945 to 2000 (Order No. 3451520). Available from ProQuest Central. (862875768). Retrieved from <https://search.proquest.com/docview/862875768?accountid=190548>
- Roper, J. C. (2008). The effects of practice and working-practice homework on the math achievement of elementary school students showing varying levels of math performance (Order No. 3483997). Available from ProQuest Central. (904395002). Retrieved from <https://search.proquest.com/docview/904395002?accountid=190548>
- Sampson, C. A., Sukow, A. L., & Pierrie, V. (2016). Effects of Singapore mathematics on students and teachers (Order No. 10245162). Available from ProQuest Central. (1861663197). Retrieved from <https://search.proquest.com/docview/1861663197?accountid=190548>

## B. OPEN ACCESS

### ➤ FREE E-BOOKS

- Learning Mathematics in the Primary Grades. <https://www.pdfdrive.com/learning-mathematics-in-the-primary-grades-d18897588.html>
- Posamentier, Alfred S. (2009). Problem solving in mathematics, grades 3–6: powerful strategies to deepen understanding. California: Corwin A Sage Company. <https://www.pdfdrive.com/problem-solving-in-mathematics-grades-3-6-powerful-strategies-to-deepen-understanding-e184857856.html>

- Stickels, Terry. Math Puzzles and BrainTeasers, grades 3–5 Over 300 Puzzles that Teach Math and Problem-Solving Skills. San Francisco: Jossey-Bass. <https://www.pdfdrive.com/math-puzzles-and-braintasers-grades-3-5-over-300puzzles-that-teach-math-and-problem-solving-skills-d156617651.html>
- (2006). Mathematics in the Primary Grades: Teaching and Learning. Math Division Madison Metropolitan School District <https://www.pdfdrive.com/learningmathematicsin-the-primary-grades-d18897588.html>
- Mathematics in Primary Education: Learning of mathematics by young children. <https://www.pdfdrive.com/mathematics-in-primary-education-learning-of-mathematics-by-young-children-e33477217.html>
- Meg, Glenn. (2003). The Everything Kids Math Puzzle Books. Massachusetts: Adams Media Corporation. <https://www.pdfdrive.com/the-everything-kids-math-puzzles-book-brain-teasers-games-and-activities-for-hours-of-fun-e156916264.html>

#### ➤ FREE E-JOURNALS

- Mathematical Thinking and Learning. Educational Studies in Mathematics. <https://www.springer.com/journal/10649>
- Open Mathematics. <https://www.degruyter.com/journal/key/MATH/html>
- Educational Studies in Mathematics. <https://www.springer.com/journal/10649>
- American Mathematical Society. <https://www.ams.org/journals>
- African Journal of Educational Studies in Mathematics and Sciences (AJESMS). <https://www.ajol.info/index.php/ajesms>
- Journal for Research in Mathematics Education. <https://www.nctm.org/publications/journal-for-research-in-mathematics-education/>
- Mathematical Thinking and Learning. <https://www.tandfonline.com/loi/hmtl20#.V3FiOqJsxNd>
- Mathematics Teacher. <https://www.nctm.org/publications/mathematics-teacher/>
- Mathematics Teacher Educator. <https://www.nctm.org/publications/mathematicsteacher-educator/>

#### ➤ FREE E-THESES

- Schlabra, M. R. (2009). The Effectiveness of Mathematics and Science Partnership (MSP) Grants on Student Achievement. (Doctoral Dissertation). Liberty University. Retrieved from <http://digitalcommons.liberty.edu/doctoral/255>
- Blackstock-Bernstein, A. (2014). The Pragmatic Demands of Mathematics: Examining Elementary School Students' Oral Language Use in Mathematical Explanations. (Thesis). UCLA. Retrieved from <http://www.escholarship.org/uc/item/1xh8m90k>
- Strother, Scott A., 1. (2011). Algebra knowledge in early elementary school supporting later mathematics ability. (Doctoral Dissertation). University of Louisville. Retrieved from 10.18297/etd/1394 ; <https://ir.library.louisville.edu/etd/1394>
- Wang, H. (2018). A Research on the Development and Integration of Board Game into 3rd Grade Number and Operation Instruction. (Thesis). NSYSU. Retrieved from [http://etd.lib.nsysu.edu.tw/ETD-db/ETD-search/view\\_etd?URN=etd-0510118-083449](http://etd.lib.nsysu.edu.tw/ETD-db/ETD-search/view_etd?URN=etd-0510118-083449)
- Johnson, J. I. (2016). An Investigation into the Definitions and Development of Pedagogical Content Knowledge Among Pre-Service and Current Mathematics Teachers. (Doctoral Dissertation). Arizona State University. Retrieved from <http://repository.asu.edu/items/40176>

- Hawes, Z. C. K. (2019). Cognitive, Neural, and Educational Contributions to Mathematics Performance: A Closer Look at the Roles of Numerical and Spatial Skills. (Thesis). University of Western Ontario. Retrieved from <https://ir.lib.uwo.ca/etd/6623>
- Cerezci, B. (2016). Quality of Math Instruction Matters: Examining Validity and Reliability of High Impact Strategies in Early Mathematics (his-Em). (Doctoral Dissertation). Loyola University Chicago. Retrieved from [https://ecommons.luc.edu/luc\\_diss/2276](https://ecommons.luc.edu/luc_diss/2276)
- Byrd, L. (2020). Teacher's Narratives: Navigating Culturally Responsive Teaching in Upper Elementary Mathematics Classrooms. (Thesis). Georgia State University. Retrieved from [https://scholarworks.gsu.edu/ece\\_diss/53](https://scholarworks.gsu.edu/ece_diss/53)
- Gullie, K. A. (2011). Open-ended (extended/constructed) response questions as predictors of success on subsequent state mathematics examination | the influence of mathematical awareness and conceptual knowledge. (Thesis). State University of New York at Albany. Retrieved from <https://www.proquest.com/dissertations-theses/open-ended-extended-constructed-response/docview/867093379/se-2?accountid=190548>
- Kiss, A. (2018). Investigating Young Children's Attitudes toward Mathematics: Improved Measurement and the Relation to Achievement. (Doctoral Dissertation). University of Minnesota. Retrieved from <http://hdl.handle.net/11299/199057>
- Mononen, R. (2014). Early mathematics interventions: Supporting young children with low performance in mathematics. (Doctoral Dissertation). University of Helsinki. Retrieved from <http://hdl.handle.net/10138/144106>
- Kiss, A. (2018). Investigating Young Children's Attitudes toward Mathematics: Improved Measurement and the Relation to Achievement. (Doctoral Dissertation). University of Minnesota. Retrieved from <http://hdl.handle.net/11299/199057>
- Stanley, A. M. (2011). Accelerated Mathematics and High-Ability Students Math Achievement in Grades Three and Four. (Doctoral Dissertation). East Tennessee State University. Retrieved from <https://dc.etsu.edu/etd/1327>

### C. PROFESSIONAL ORGANIZATIONS

- Association of Mathematics Teacher Educators. <https://amte.net/>
- International Commission on Mathematical Instruction. <https://www.mathunion.org/icmi/activities/resources-and-links-community/associations>
- Mathematical Society of the Philippines. <https://www.mathsociety.ph/>
- National Council of Teacher for Mathematics. <https://www.nctm.org/>
- Consortium for Mathematics and its Application. <https://www.comap.com/>
- Technical Education Research Center. <https://www.terc.edu/>
- Education Development Center. <https://www.edc.org/>
- American Mathematical Society. <https://www.ams.org/home/page>
- Mathematical Association of America. <https://www.maa.org/>

### D. OTHER RELATED WEB PORTALS

- Math Games. <https://www.mathgames.com/grade3>
- Math Playground. [https://www.mathplayground.com/grade\\_3\\_games.html](https://www.mathplayground.com/grade_3_games.html)
- Khan Academy. <https://www.khanacademy.org/math/cc-third-grade-math>
- Education. <https://www.education.com/games/third-grade/math/>
- Splash Learn. <https://www.splashlearn.com/math-games-for-3rd-graders>
- Online Math Learning. <https://www.onlinemathlearning.com/grade-3.html>
- Math Blaster. <http://www.mathblaster.com/>

- Multiplication. <https://www.multiplication.com/>
- Hooda Math. <http://www.hoodamath.com/>
- Manga High. <https://www.mangahigh.com/en-us/>
- Manga Time. <http://www.mathgametime.com/>
- Math Playground. <https://www.mathplayground.com/>
- Cool Math Games. <https://www.coolmathgames.com/>
- Code Monkey. <https://www.codemonkey.com/covid-19/>

#### E. RELATED ONLINE RESOURCES FOR TEACHERS

- We are Teachers. <https://www.weareteachers.com/third-grade-math-games/>
- TES Teaching Resources. <https://www.tes.com/en-us/teaching-resources>
- Teacher Vision. <https://www.teachervision.com/math/third-grade-worksheets>
- Teacher Tube. <https://www.teachertube.com/>
- Math TV. <https://mathtv.com/>
- National Library of Virtual Mathematics. <http://nlvm.usu.edu/en/nav/vlibrary.html>
- Math Goodies. <https://www.mathgoodies.com/>
- Science and Mathematics Initiative for Learning Enhancement.  
<http://mypages.iit.edu/~smile/index.html>
- Online Chart Tool. <https://www.onlinecharttool.com/>
- Corbett Maths. <https://corbettmaths.com/>
- Cuethink. <https://www.cuethink.com/>
- Dream Box. <https://www.dreambox.com/>
- Freckle. <https://www.freckle.com/>
- Greg Tang Math. <https://gregtangmath.com/>
- Illuminations. <https://illuminations.nctm.org/>
- Khan Academy. <https://www.khanacademy.org/>
- Learn Zillion. <https://learnzillion.com/p/>
- Moby Max. <https://www.mobymax.com/>
- Prodigy Game. <https://www.prodigygame.com/main-en/>
- Splash Learn. <https://www.splashlearn.com/>
- Woot Math. <https://ed.wootmath.com/adaptive-learning>
- Curriculum Associates. <https://www.curriculumassociates.com/teaching-learning-2020>

#### F. RELATED ONLINE RESOURCES FOR PARENTS

- Carrot Top: Free Educational Resources. <https://carrot-top.com/educational-resources>
- Carson Dellosa.  
[https://www.carsondellosa.com/freeresources/freeprintables/?utm\\_source=MDR&utm\\_medium=partnershipAd&utm\\_campaign=FreeResources](https://www.carsondellosa.com/freeresources/freeprintables/?utm_source=MDR&utm_medium=partnershipAd&utm_campaign=FreeResources)
- Clever Tykes. <https://clevertykes.com/shop/>
- Didax. <https://www.didax.com/math/virtual-manipulatives.html>
- Camp DK. <https://www.dk.com/us/information/home-learning-for-kids/>
- Ed Helper. <https://www.edhelper.com/teacher-education/Daily-Free-Learning-Workbooks-for-Teachers-to-Share-with-Parents-while-Schools-are-Closed-Kids-will-actually-do-these.htm>
- Educational Insights. <https://www.educationalinsights.com/at-home-activities-for-kids>
- Emotional ABC. <https://www.emotionalabcs.com/>

#### IV. TUTORIALS

- Super Kids. <https://www.superkids.com/aweb/tools/math/index.shtml>
- Math Aids. <https://www.math-aids.com/>
- Khan Academy. <https://www.khanacademy.org/>
- Wolfram Math World. <https://mathworld.wolfram.com/>
- Get the Math. <https://www.thirteen.org/get-the-math/>
- 3rd Grade Math Compilation. <https://www.youtube.com/watch?v=hmBI8JNzPTk>
- Multiplication Tables 01 To 10. <https://www.youtube.com/watch?v=h-CC6jDDahQ>
- Always Remember Your Times Table (6 to 10) Using Finger Multiplication. <https://www.youtube.com/watch?v=x2Nr-f02AUy>
- Division for Kids | Basic Math Learning Video. [https://www.youtube.com/watch?v=rGMecZ\\_aERo](https://www.youtube.com/watch?v=rGMecZ_aERo)
- Fractions for Kids | Math Learning Video. <https://www.youtube.com/watch?v=p33BYf1NDAE>
- Learn Grade 3 - Math - The Division Operation. <https://www.youtube.com/watch?v=VCkvlAiwpxA>
- Math Antics - Long Division with 2-Digit Divisors. [https://www.youtube.com/watch?v=HdU\\_rf7eMTI](https://www.youtube.com/watch?v=HdU_rf7eMTI)
- Simple Math Tricks You Were not Taught at School. <https://www.youtube.com/watch?v=LERb-94P8po>
- Brain Pop. <https://www.brainpop.com/math/>
- Math Central. <http://mathcentral.uregina.ca/index.php>
- Numberock. <https://numberock.com/>
- Cool Math Games. <https://www.coolmathgames.com/>
- Fun Brain. <https://www.funbrain.com/>
- Math Game Time. <http://www.mathgametime.com/>

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