



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

RESEARCH GUIDE: SCIENCE K

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 Online Resources for Teachers

F. Related Online Resources for Parents

IV. Tutorials

RESEARCH GUIDES

SCIENCE K

I. SCOPE NOTE

Children are expected to demonstrate a basic understanding of concepts pertaining to living and nonliving things, including weather, and use these in categorizing things in his/her environment. They are also expected to acquire the essential skills and sustain their natural curiosity in their immediate environment through exploration, discovery, observation, and relate their everyday experiences using their senses (touch, sight, smell, taste, and hearing).

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

BT:

- Science

RT:

- Body Parts
- Sense Organ
- Naming Animals
- Plants
- Objects
- Weather

NT:

- Functions of the Body
- Functions of Sense Organ
- Describing Animals
- Differentiating Animals
- Characteristics of Plants
- Describing Objects
- Kinds of Weather

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

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

➤ E-JOURNALS

- The Reading Teacher.
https://www.proquest.com/central/publication/publications_41358
- Interchange. https://www.proquest.com/central/publication/publications_47497
- Teachers College Record.
https://www.proquest.com/central/publication/publications_41187
- Journal of Science Teacher Education.
https://www.proquest.com/central/publication/publications_55373
- Asia - Pacific Forum on Science Learning and Teaching.
https://www.proquest.com/central/publication/publications_2046135
- School Science and Mathematics.
https://www.proquest.com/central/publication/publications_41443
- Journal of Science Education and Technology.
https://www.proquest.com/central/publication/publications_2043721
- European Early Childhood Education.
https://search.proquest.com/central/publication/publications_426770
- Cognition and Instruction.
https://search.proquest.com/central/publication/publications_46254
- Science Education.
https://search.proquest.com/central/publication/publications_48964
- Teaching Science. https://search.proquest.com/central/publication/publications_29558
- Journal of Cognition and Development.
https://search.proquest.com/central/publication/publications_25338

➤ E-THESES

- Kurz, L. A. (2018). Literacy integrated with kindergarten science: An investigation of impacts of kindergarten students including those at-risk for learning disabilities (Order No. 10809792). Available from ProQuest Central. (2070573266). Retrieved from <https://www.proquest.com/dissertations-theses/literacy-integrated-with-kindergarten-science/docview/2070573266/se-2?accountid=190548>
- Little, T. (2016). Improving academic achievement and engagement using hands-on activities in kindergarten science (Order No. 10116734). Available from ProQuest Central. (1802537028). Retrieved from <https://www.proquest.com/dissertations-theses/improving-academic-achievement-engagement-using/docview/1802537028/se-2?accountid=190548>
- Olgan, R. (2008). A longitudinal analysis of science teaching and learning in kindergarten and first-grade (Order No. 3348526). Available from ProQuest Central. (304645479). Retrieved from <https://www.proquest.com/dissertations-theses/longitudinal-analysis-science-teaching-learning/docview/304645479/se-2?accountid=190548>
- Hamilton, F. A. (2016). From the voices of kindergarten teachers: Factors that impact decisions about when to engage the natural curiosities of their students in science (Order No. 10242671). Available from ProQuest Central. (1853423449). Retrieved from

<https://www.proquest.com/dissertations-theses/voices-kindergarten-teachers-factors-that-impact/docview/1853423449/se-2?accountid=190548>

- Lee, T. R. (2010). Young children's conceptions of science and scientists (Order No. 3421874). Available from ProQuest Central. (756262370). Retrieved from <https://www.proquest.com/dissertations-theses/young-childrens-conceptions-science-scientists/docview/756262370/se-2?accountid=190548>
- Turner, D. P. (2011). Long-term impact of undergraduate science reform courses on the pedagogical content knowledge of kindergarten through sixth grade inservice teachers (Order No. 3490906). Available from ProQuest Central. (917923564). Retrieved from <https://www.proquest.com/dissertations-theses/long-term-impact-undergraduate-science-reform/docview/917923564/se-2?accountid=190548>
- Tsai, M. (2011). Kindergarten students' cognitive engagement in science learning (Order No. 3481161). Available from ProQuest Central. (910005637). Retrieved from <https://search.proquest.com/docview/910005637?accountid=190548>
- Harris, K. (2010). Kindergarten students' explanations during science learning (Order No. 3444561). Available from ProQuest Central. (859003358). Retrieved from <https://search.proquest.com/docview/859003358?accountid=190548>
- Bryant, K. L. (2016). Using informational texts and science journals in a prekindergarten setting (Order No. 10140150). Available from ProQuest Central. (1877556702). Retrieved from <https://search.proquest.com/docview/1877556702?accountid=190548>
- Aguilar, N. A. (2016). Examining the integration of science, technology, engineering, and mathematics (STEM) in preschool and transitional kindergarten (TK) classrooms using a social-constructivist approach (Order No. 10111641). Available from ProQuest Central. (1799589223). Retrieved from <https://search.proquest.com/docview/1799589223?accountid=190548> Early Education

B. OPEN ACCESS

➤ FREE E-BOOKS

- Kindergarten Science Lesson: Teacher Science Lesson & Resource Guide. <https://www.pdfdrive.com/kindergarten-science-lessons-d38326159.html>
- Hebbeler, Kathleen. (2012). Connecticut Standards Alignment: Preschool Curriculum Framework, Kindergarten Science Curriculum Standards, and Kindergarten Social Studies Curriculum Framework Final Report. California: SRI International. <https://www.pdfdrive.com/preschool-curriculum-framework-kindergarten-science-curriculum-standards-and-kindergarten-so-d16245957.html>
- Michaels, Sarah. (2007). Ready, set, science: putting research to work in K-8 science classrooms. Washington: National Academies Press. <https://www.pdfdrive.com/ready-set-science-putting-research-to-work-in-k-8-science-classrooms-d184354367.html>
- Stone-MacDonald, Angela. (2015). Engaging young engineers: teaching problem solving skills through stem. Baltimore: Paul H. Brooks Publishing.

<https://www.pdfdrive.com/engaging-young-engineers-teaching-problem-solving-skills-through-stem-d157831458.html>

- Duschl, Richard. (2007). Taking Science to School: Learning and Teaching Science in Grades K-8. Washington: National Academies Press. <https://www.pdfdrive.com/taking-science-to-school-learning-and-teaching-science-in-grades-k-8-d156654751.html>
- Eshach, Haim. (2006). Science Literacy in Primary Schools and Pre-Schools. Netherlands: Springer. <https://www.pdfdrive.com/science-literacy-in-primary-schools-and-pre-schools-classics-in-science-education-d159527075.html>
- (2004). Kindergarten Science Curriculum. <https://www.pdfdrive.com/kindergarten-science-curriculum-d25028027.html>
- Horvath, Joan. (2016). 3D Printed Science Projects: Ideas for Your Classroom, Science Fair, or Home. New York: Apres. <https://www.pdfdrive.com/3d-printed-science-projects-ideas-for-your-classroom-science-fair-or-home-d189508726.html>
- Wall, Stephanie. (2017). Kindergarten: Teacher Science Lesson & Resource Guide <https://www.pdfdrive.com/kindergarten-science-lessons-d38326159.html>
- Michaels, Sarah. (2007). Ready, set, science! : putting research to work in K-8 science classrooms. Washington: The National Academic Press. <https://www.pdfdrive.com/ready-set-science-putting-research-to-work-in-k-8-scienceclassrooms-d184354367.html>
- Manitoba Education Training (1999). Kindergarten to Grade 4 science : a foundation for implementation. <https://www.pdfdrive.com/kindergarten-to-grade-4-science-d40105280.html>
- Science K to 7: integrated resource package 2005. <https://www.pdfdrive.com/sciencekindergarten-d51382007.html>

➤ FREE E-JOURNALS

- Education Sciences. <https://www.mdpi.com/journal/education>
- International Journal of Educational Research Open Access Articles. <https://www.journals.elsevier.com/international-journal-of-educational-research/open-access-articles>
- AERA Open. <https://journals.sagepub.com/doi/10.1177/2332858419861081>
- Science Journal for Kids. <https://sciencejournalforkids.org/>
- Early Childhood Education Journal. <https://www.springer.com/journal/10643>
- Educational Sciences – Open Access Journal. <https://www.mdpi.com/journal/education>
- Frontiers for Young Minds. <https://kids.frontiersin.org/>
- Sci EP. <http://www.sciepub.com/portal/search?q=kindergarten>
- Early Childhood Research Quarterly. <https://www.sciencedirect.com/journal/earlychildhood-research-quarterly>

➤ FREE E-THESES

- Farkis, J. C. (2011). Early school experiences related to gender disparities in K-8 mathematics and science. (Doctoral Dissertation). Northeastern University. Retrieved from <http://hdl.handle.net/2047/d20000990>
- Jeong, H. I. (2014). Examining kindergarten teachers' beliefs and practices in science education. (Doctoral Dissertation). University of Texas – Austin. Retrieved from <http://hdl.handle.net/2152/25992>
- Moffit, C. A. (2013). Kindergarteners' Concept Development in Science and Literacy Learning Through Concept-Oriented Reading Instruction (CORI). (Doctoral Dissertation). University of Nevada – Las Vegas. Retrieved from <https://digitalscholarship.unlv.edu/thesesdissertations/2011>
- Searchfield, M. A. (2017). Changing curriculum : a critical inquiry into the revision of the British Columbia science curriculum for grades K-9 . (Thesis). Royal Roads University. Retrieved from <http://hdl.handle.net/10613/4991>
- Johnson, U. Y. (2011). Parent Involvement and Science Achievement: A Latent Growth Curve Analysis. (Thesis). University of North Texas. Retrieved from <https://digital.library.unt.edu/ark:/67531/metadc84228/>
- (2019). Technology-infused science education curriculum for parents to teach kindergarten children. (Master's Thesis). University of Texas – Austin. Retrieved from <http://dx.doi.org/10.26153/tsw/8202>
- Turner, D. P. (2011). Long-term impact of undergraduate science reform courses on the pedagogical content knowledge of kindergarten through sixth grade inservice teachers. (Thesis). University of Alabama. Retrieved from <http://purl.lib.ua.edu/54185>
- NC DOCKS at The University of North Carolina at Greensboro; Pierro, R. C. (2015). Teachers' knowledge, beliefs, self-efficacy, and implementation of early childhood learning standards in science and math in prekindergarten and kindergarten. (Thesis). NC Docks. Retrieved from http://libres.uncg.edu/ir/uncg/f/Pierro_uncg_0154M_11772.pdf
- Pierro, R. C. (2015). Teachers' knowledge, beliefs, self-efficacy, and implementation of early childhood learning standards in science and math in prekindergarten and kindergarten. (Master's Thesis). University of North Carolina – Greensboro. Retrieved from <http://libres.uncg.edu/ir/listing.aspx?styp=ti&id=18455>
- Gervasi-Geist, V. M. (2010). An experiential kindergarten science curriculum engaging students in the scientific inquiry process. (Thesis). Humboldt State University. Retrieved from <http://hdl.handle.net/2148/605>
- Mcdyre, A. M. (2014). Kindergarten girls "illuminating" their identities-in-practice through science instruction framed in explanation building: From the shadows into the light. (Doctoral Dissertation). Penn State University. Retrieved from <https://etda.libraries.psu.edu/catalog/22465>
- Pendergast, E. G. (2015). Shaping birth through kindergarten preservice teachers' selfefficacy towards teaching science. (Doctoral Dissertation). University of Georgia. Retrieved from http://purl.galileo.usg.edu/uga_etd/pendergast_evelaine_g_201512_phd

C. PROFESSIONAL ORGANIZATIONS

- The Association for Science Education. <https://www.ase.org.uk/>
- National Science Teaching Association. <https://www.nsta.org/>
- International Society for Technology in Education (ISTE). <https://www.iste.org/>
- National Science Foundation. <https://nsf.gov/>
- National Education Association.
<https://www.nea.org/home/2580.htm?cpsessionid=SID49F2D42F-401C7F83>
- American Federation of Teachers. <https://www.aft.org/>
- Computer Using Educators. <https://cue.org/>
- National Association for Gifted Children. <https://www.nagc.org/>
- Association for Experimental Education. <https://www.aee.org/>

D. OTHER RELATED WEB PORTALS

- All Things Animal TV. https://www.youtube.com/channel/UCB_2_OiPFh6FdUvp50_maug
- Sand Box. <https://okgosandbox.org/>
- Mystery Science. <https://mysteryscience.com/distance-learning>
- Project Noah. <https://www.projectnoah.org/>
- Technovation Families. <https://www.curiositymachine.org/>
- Creosity Space. <https://www.creosityspace.com/spring2020.html>
- NASA Kids Club. <https://www.nasa.gov/kidsclub/index.html>
- Brain Pop Science. <https://www.brainpop.com/science/seeall/>
- Discovery Kids Plus. <https://www.discoverykidsplus.com/>
- Science Kids. <https://www.sciencekids.co.nz/>
- National Geographic Kids. <https://kids.nationalgeographic.com/>
- PBS Kids. <https://pbskids.org/>
- Ology. <https://www.amnh.org/explore/ology>
- Frontiers for Young Minds. <https://kids.frontiersin.org/>
- Earthquake for Kids. <https://earthquake.usgs.gov/learn/kids/>
- Chemi Cool. <https://www.chemicool.com/>
- NASA Science. <https://solarsystem.nasa.gov/missions/galileo/overview/>
- Smithsonian: National Air and Space Museum. <https://airandspace.si.edu/>
- Climate Kids. <https://climatekids.nasa.gov/>
- Dr. Seussville. <https://www.seussville.com/2020/02/>
- My First Garden. <https://web.extension.illinois.edu/firstgarden/>
- Farmer's Almanac for Kids. <https://www.almanac.com/kids>
- PBS Building Big. <http://www.pbs.org/wgbh/buildingbig/index.html>

E. RELATED ONLINE RESOURCES FOR TEACHERS

- National Science Digital Library. <https://nsdl.oercommons.org/>
- National Geographic Education. <https://www.nationalgeographic.org/education/>

- Science Friday. <https://www.sciencefriday.com/>
- Studies Weekly Online. <https://www.studiesweekly.com/>
- Bio Interactive. <https://www.biointeractive.org/>
- Smithsonian: Science Education Center. <https://ssec.si.edu/>
- How to Smile. <https://www.howtosmile.org/>
- Periodic Videos. <http://www.periodicvideos.com/index.htm>
- Teach the Earth. <https://serc.carleton.edu/teachearth/index.html>
- Stellarium. <http://stellarium.org/>
- NASA Education. <https://www.nasa.gov/education/materials/>
- Learn Genetics. <https://learn.genetics.utah.edu/>
- The Concord Consortium. <https://concord.org/our-work/research-projects/>
- Chem Collective. <http://www.chemcollective.org/>
- Sci Table. <https://www.nature.com/scitable/>
- Impact Earth. <https://www.purdue.edu/impactearth/>
- Creosity Space. <https://www.creosityspace.com/spring2020.html>
- Elementari. <https://www.elementari.io/>
- Essentials Skills. <https://essentialskills.com/>
- Common Sense Education. <https://www.commonsense.org/education/website/ck-12>
- Define Learning. <https://app.definedstem.com/home>
- PHET Interactive Simulations in Math and Science. <https://phet.colorado.edu/>
- Ok Go Sandbox. <https://okgosandbox.org/>

F. RELATED ONLINE RESOURCES FOR PARENTS

- Exploratorium. <https://www.exploratorium.edu/>
- Science Kids. <https://www.sciencekids.co.nz/gamesactivities.html>
- Annenberg Learner. <https://www.learner.org/>
- PHET Interactive Simulation.
<https://phet.colorado.edu/en/simulations/filter?type=html&sort=alpha&view=grid>
- Jumpstart. <https://www.jumpstart.com/parents/resources/science-resources>
- Community Resources for Science. <https://www.crsce.org/educators/Family>
- Kindergarten Resources. <https://www.education.com/resources/kindergarten/>
- Backpack Sciences. <https://www.backpacksciences.com/science-simplified>
- Breakout Edu. <https://www.breakoutedu.com/funathome>
- Carson Dellosa. <https://www.carsondellosa.com/free-resources/free-printables/>
- PBS Nova. <https://www.pbs.org/wgbh/nova/>
- National Science Digital Library. <https://nsdl.oercommons.org/>

IV. TUTORIALS

- Kids Science. https://www.youtube.com/channel/UCwWa8EzP8vuI_hvFWOTryEg/about
- Science Max. <https://www.youtube.com/channel/UCbprhISv-0ReKPPyh7-Dtw/featured>
- Sci Show Kids. <https://www.youtube.com/user/scishowkids>

- Best Nature Webcams. <https://www.weareteachers.com/best-nature-webcams/>
- Star Dust Mystery. <https://thestardustmystery.com/missionkt-4-player-pack/>
- Climate Kids. <https://climatekids.nasa.gov/>
- Kids Discover Online. <https://kidsdiscover.com/>
- SciShow Kids. <https://www.youtube.com/channel/UCRFIPG2u1DxKLNuE3y2SjHA>
- National Geographic Kids. <https://kids.nationalgeographic.com/videos/>
- Science Videos for Kids. https://www.youtube.com/playlist?list=PLyqf1JCzOf_nBNCibt2BQI-hLBCzgHrMt
- Popular Science. <https://www.youtube.com/user/Popscivideo>
- Operation Ouch. <https://www.youtube.com/c/OperationOuch/videos>
- Sids the Science Kids. <https://pbskids.org/sid/videos>
- Socratica Kids. <https://www.youtube.com/c/SocraticaKids/videos>
- Steve Spangler Science. <https://www.stevespanglerscience.com/lab/categories/experiments/at-home-science/>
- Home Science. <https://www.youtube.com/c/maricv84HomeScience/videos>
- Minute Earth. https://www.youtube.com/channel/UCeiYXex_fwYDonaTcSlk6w
- Science Bob. <https://sciencebob.com/category/videos/>
- Science Kidz. <https://www.sciencekids.co.nz/videos.html>
- Sports Science. https://www.youtube.com/playlist?list=PLn3nHXu50t5xqHW67LKFhUB_C2Y9C0lwC
- NASA Gallery. <https://www.nasa.gov/multimedia/videogallery/index.html>
- Scientific American. <https://www.youtube.com/user/SciAmerican>
- How Stuff Works. <https://www.youtube.com/HowStuffWorks>
- Tell Me Why? https://www.youtube.com/playlist?list=PL84TJyOKWovp9cov9kZS_dzZ2IENs7Yea
- Crash Course. <https://www.youtube.com/channel/UCX6b17PVsYBQ0ip5gyeme-Q>
- It's Okay to Be Smart. <https://www.youtube.com/channel/UCH4BNI0-FOK2dMXoFtViWHw>
- Veritasium. <https://www.youtube.com/channel/UCHnyfMqiRRG1u-2MsSQLbXA>
- AsapSCIENCE. <https://www.youtube.com/user/AsapSCIENCE/featured>
- The Infographics Show. <https://www.youtube.com/user/TheInfographicsShow>
- Science Max. <https://www.youtube.com/channel/UCbprhISv-0ReKPPyh7-Dtw/featured>
- Finding Stuff Out. <https://www.youtube.com/channel/UC8u2mS-ZGT2PIDXH8-zvx3A>
- The Slow Mo Guys. <https://www.youtube.com/channel/UCUK0HBIBWgM2c4vsPhkYY4w>

Prepared by:

Mr. Marvin A. Milla


Layout

mamilla@letranbataan.edu.ph

Ms. Maria Rosiel C. Ordenes

Subject Librarian

mrcordenes@letranbataan.edu.ph



Asst. Prof. Norady Mercado Pere
Chief Librarian
ndmercado@letranbataan.edu.ph

For more inquiries, kindly e-mail us at library@letranbataan.edu.ph

