



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

RESEARCH GUIDE: SCIENCE 3

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RESEARCH GUIDES

SCIENCE 3

I. SCOPE NOTE

Learners will use their senses to explore and describe the functions of their senses, compare two or more objects and using two or more properties , sort things in different ways and give a reason for doing so, describe the kind of weather or certain events in the home or school and express how these are affecting them, do simple measurements of length, tell why some things around them are important , decide if what they do is safe or dangerous; give suggestions on how to prevent accidents at home, practice electricity, water, and paper conservation, help take care of pets or of plants , and tell short stories about what they do, what they have seen, or what they feel.

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

BT:

- Science

RT:

- Matters
- Light
- Heat
- Sound Energy
- Force
- Motion
- Body Parts
- Senses
- Animals
- Parts of Animals
- Plants
- Parts of Plants
- Land Forms
- Water Forms
- Resources
- Renewable Resources
- Non-renewable Resources
- Human Activities
- Earth Land
- Water
- Weather
- Object seen in the Sky

NT:

- Properties
- Parts of Senses
- Functions of Senses
- Proper Care of the Body
- Similarity and Differences of the People
- Need of Animals
- Functions of Plants
- Characteristics of Plants
- Uses of Plants
- Human Activities that affect the Earth Lands and Water

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

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

➤ E-JOURNALS

- International Journal of Science Education.
https://www.proquest.com/central/publication/publications_186296
- Journal of Science Education and Technology.
https://www.proquest.com/central/publication/publications_2043721
- Science Activities. https://www.proquest.com/central/publication/publications_35290
- Science Educator. https://www.proquest.com/central/publication/publications_26548
- School Science and Mathematics.
https://www.proquest.com/central/publication/publications_41443
- Education Sciences.
https://www.proquest.com/central/publication/publications_2032405
- Science Scope. https://www.proquest.com/central/publication/publications_36017
- Canadian Journal of Science, Mathematics and Technology Education.
https://search.proquest.com/central/publication/publications_42727
- International Journal of Science and Mathematics Education.
https://search.proquest.com/central/publication/publications_2043858
- Science Education.
https://search.proquest.com/central/publication/publications_48964
- Teaching Science. https://search.proquest.com/central/publication/publications_29558
- Science and Children.
https://search.proquest.com/central/publication/publications_41736

➤ E-THESES

- Almarode, J. T. (2011). Frequency, duration, and time devoted to elementary science instruction and the association with science achievement and science interest (Order No. 3484456). Available from ProQuest Central. (905163834). Retrieved from

<https://www.proquest.com/dissertations-theses/frequency-duration-time-devoted-elementary/docview/905163834/se-2?accountid=190548>

- Coln, K. N. (2008). The status of inquiry -based science instruction in a mid -size school district for grades 3–8 as mandated state -wide testing begins: A survey of teacher practices (Order No. 3320937). Available from ProQuest Central. (304356722). Retrieved from <https://www.proquest.com/dissertations-theses/status-inquiry-based-science-instruction-mid-size/docview/304356722/se-2?accountid=190548>
- Scoggins, S. S. (2016). The effects of academic grouping on student performance in science (Order No. 10183560). Available from ProQuest Central. (1845855228). Retrieved from <https://www.proquest.com/dissertations-theses/effects-academic-grouping-on-student-performance/docview/1845855228/se-2?accountid=190548>
- Boussetot, T. E. (2018). Shifting the focus to science in the early elementary years: An examination of science achievement growth in grades K-2 using a nationally representative dataset (Order No. 10829119). Available from ProQuest Central. (2090125721). Retrieved from <https://www.proquest.com/dissertations-theses/shifting-focus-science-early-elementary-years/docview/2090125721/se-2?accountid=190548>
- Roberson, S. V. (2010). Science skills on wheels: The exploration of a mobile science lab's influence on teacher and student attitudes and beliefs about science (Order No. 3438381). Available from ProQuest Central. (839311793). Retrieved from <https://www.proquest.com/dissertations-theses/science-skills-on-wheels-exploration-mobile-labs/docview/839311793/se-2?accountid=190548>
- Schwietert, D. L. (2008). Math and science technology access and use in south dakota public schools grades three through five (Order No. 3318829). Available from ProQuest Central. (304488162). Retrieved from <https://www.proquest.com/dissertations-theses/math-science-technology-access-use-south-dakota/docview/304488162/se-2?accountid=190548>
- Rangasammy, G. (2017). An investigation of teachers' reported use of scientific practices in elementary instruction: Implications for student outcomes and principals' self-efficacy (Order No. 10641493). Available from ProQuest Central. (2011020439). Retrieved from <https://www.proquest.com/dissertations-theses/investigation-teachers-reported-use-scientific/docview/2011020439/se-2?accountid=190548>
- Schroeder, M. (2010). The effect of classroom instruction, attitudes towards science and motivation on students' views of uncertainty in science (Order No. NR64132). Available from ProQuest Central. (734607438). Retrieved from <https://www.proquest.com/dissertations-theses/effect-classroom-instruction-attitudes-towards/docview/734607438/se-2?accountid=190548>
- Rangasammy, G. (2017). An investigation of teachers' reported use of scientific practices in elementary instruction: Implications for student outcomes and principals' self-efficacy (Order No. 10641493). Available from ProQuest Central. (2011020439). Retrieved from <https://search.proquest.com/docview/2011020439?accountid=190548>
- Almarode, J. T. (2011). Frequency, duration, and time devoted to elementary science instruction and the association with science achievement and science interest (Order No. 3484456). Available from ProQuest Central. (905163834). Retrieved from <https://search.proquest.com/docview/905163834?accountid=190548>

- Scoggins, S. S. (2016). The effects of academic grouping on student performance in science (Order No. 10183560). Available from ProQuest Central. (1845855228). Retrieved from <https://search.proquest.com/docview/1845855228?accountid=190548>
- Bays, K. (2016). Teaching the next generation of scientists: Science education in the primary grades (Order No. 10140660). Available from ProQuest Central. (1821617902). Retrieved from <https://search.proquest.com/docview/1821617902?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://search.proquest.com/docview/304645479?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Abell, Sandra K. (2010). Designing and Teaching the Elementary Science Methods Course (Teaching and Learning in Science Series). New York: Routledge Taylor & Francis. <https://www.pdfdrive.com/designing-and-teaching-the-elementary-science-methods-course-teaching-and-learning-in-science-series-d157138066.html>
- Donovan, M. Suzzane. (2005). How Students Learn: History, Mathematics, and Science in the Classroom. Washington: National Academies Press. <https://www.pdfdrive.com/how-students-learn-history-mathematics-and-science-in-the-classroom-d186526131.html>
- McKnight, Katherine S. (2013). The Elementary Teacher's Big Book of Graphic Organizers, K-5: 100+ Ready-to-Use Organizers That Help Kids Learn Language Arts, Science, Social Studies, and more. California: John Wiley & Sons. <https://www.pdfdrive.com/the-elementary-teachers-big-book-of-graphic-organizers-k-5-100-ready-to-use-organizers-that-help-kids-learn-language-arts-science-social-studies-and-more-d157721306.html>
- Hackett, Jay. (2008). Science: A Closer Look. New York: McGraw Hill. <https://www.pdfdrive.com/science-a-closer-look-grade-1-d162351463.html>
- A Closer Look for Grade 1 – Reading and Writing in Science Workbook. <https://www.pdfdrive.com/a-closer-look-grade-1-reading-and-writing-in-science-workbook-d19687866.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-science-classrooms-d184354367.html>
- Science K to 7: integrated resource package 2005. <https://www.pdfdrive.com/science-kindergarten-d51382007.html>

➤ FREE E-JOURNALS

- Journal of Science Teacher Education. <https://www.tandfonline.com/toc/uste20/current>
- Journal of Science Education and Technology. <https://www.springer.com/journal/10956>
- Science Education. <https://onlinelibrary.wiley.com/journal/1098237x>
- 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>

➤ FREE E-THESES

- Cleveland, E. (2015). Using Children's Picturebooks to Develop Critical Thinking Skills and Science Practices in Grades 3rd-5th. (Thesis). University of Wyoming. Retrieved from <http://hdl.handle.net/10.15786/13686922.v1>
- Yang, K. (2016). Investigating the efficiency of self-organized Professional Learning Community on teachersâ inquiry-based science teaching. (Doctoral Dissertation). NSYSU. Retrieved from http://etd.lib.nsysu.edu.tw/ETD-db/ETD-search/view_etd?URN=etd-1012116-185957
- Klechaya, R. (2016). Place-based science education for five elementary schools in rural Thailand. (Thesis). University of Hawaii – Manoa. Retrieved from <http://hdl.handle.net/10125/100980>
- 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>
- Parish, D. A. (2013). The Impact of Professional Development on Student Achievement as Measured by Math and Science Curriculum-based Assessments. (Thesis). University of North Texas. Retrieved from <https://digital.library.unt.edu/ark:/67531/metadc500022/>
- Peer, J. (2011). Gender, grade-level and stream differences in learning environment and student attitudes in primary science classrooms in Singapore. (Thesis). Curtin University of Technology. Retrieved from <http://hdl.handle.net/20.500.11937/1158>
- Patchett, C. M. (2015). Evaluating Primary Grade-Level Science Texts for Evidence of Science Information, Quality of Literature, and Elements of Critical Literacy with the Modified Analytical Science Trade-Book Rubric. (Thesis). Texas A&M University – Corpus Christi. Retrieved from <http://hdl.handle.net/1969.6/634>
- Sothayapetch, P. (2013). A comparative study of science education at the primary school level in Finland and Thailand. (Doctoral Dissertation). University of Helsinki. Retrieved from <http://hdl.handle.net/10138/42259>
- Benningfield, S. (2013). The Effects of Gender and Implicit Theories on Science Achievement and Interest in Elementary-Aged Students. (Master's Thesis). Western Kentucky University. Retrieved from <https://digitalcommons.wku.edu/theses/1254>
- Ngmenkpieo, F. (2010). The nature of instructional support HoDs provide to mathematics and science teachers in Cape Town primary schools. (Thesis). Cape Peninsula University of Technology. Retrieved from <http://etd.cput.ac.za/handle/20.500.11838/1965>

C. PROFESSIONAL ORGANIZATIONS

- Association for Science Teacher Education. <https://theaste.org/>
- The Association of Science and Mathematics Coaches of the Philippines. <https://www.iamsed.org/>
- Philippine Association of Chemistry Teachers. <https://pact.ph/membership/>
- 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

- Smithsonian Science Education Center. <https://ssec.si.edu/>
- California Science Academy. <https://www.calacademy.org/learn-explore>
- CK 12. <https://www.ck12.org/student/>
- Defined STEM. <https://app.definedstem.com/home>
- PHET Interactive Solutions. <https://phet.colorado.edu/>
- Ok Go Sandbox. <https://okgosandbox.org/>
- Curiosity Machine. <https://www.curiositymachine.org/>
- Ed Heads: Activate your Mind. <https://edheads.org/?>
- Exploratorium. <https://www.exploratorium.edu/>
- Science Kids. <https://www.sciencekids.co.nz/>
- 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/>
- 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/>
- 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

- JET Propulsion Laboratory. <https://www.jpl.nasa.gov/edu/>
- Zooniverse. <https://www.zooniverse.org/>
- Lawrence Hall Science. <https://www.lawrencehallofscience.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

- How to Smile. <https://www.howtosmile.org/>
- National Geographic. <https://www.nationalgeographic.org/education/>
- Technovation Families. <https://www.curiositymachine.org/>
- Science Friday. <https://www.sciencefriday.com/>
- Tiny Bop. <https://schools.tinybop.com/>
- Climate Kids. <https://climatekids.nasa.gov/>
- Jumpstart. <https://www.jumpstart.com/parents/resources/science-resources>
- Community Resources for Science. <https://www.crsceience.org/educators/Family>
- 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

- 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_fwgYDonaTcSlk6w
- 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-ZGT2PldXH8-zvx3A>
- The Slow Mo Guys. <https://www.youtube.com/channel/UCUK0HBIBWgM2c4vsPhkYY4w>
- 3rd Grade Science Compilation. <https://www.youtube.com/watch?v=yzERkBasAf4>
- K12 Grade 3 - Science: Characteristics of Solid, Liquid and Gas.
<https://www.youtube.com/watch?v=EtSQDdbMTQI>
- EASY SCIENCE EXPERIMENTS THAT WILL AMAZE KIDS.
<https://www.youtube.com/watch?v=19kIYF2FApc>
- 9 EASY SCIENCE EXPERIMENTS TO DO AT HOME.
<https://www.youtube.com/watch?v=20TY0osAy3Q>
- PLAY | 5 Weather Science Experiments! <https://www.youtube.com/watch?v=2TE56FxH-ao>
- Amazing Facts about Mammals - Science with Kids.
<https://www.youtube.com/watch?v=vNxyY2ByL7Y>
- 25 COOLEST Science Experiments You Can Do at Home for Kids.
<https://www.youtube.com/watch?v=K0PJ4LiWI8w&t=110s>
- Global Warming. <https://www.youtube.com/watch?v=PqxMzKLYrZ4>
- Parts of Plants and their Functions. <https://www.youtube.com/watch?v=GkVrSofcotk>
- Force, Work and Energy. <https://www.youtube.com/watch?v=WSY4HzWZilo>
- Science 3 Q3W6 Sound. <https://www.youtube.com/watch?v=AV9ZvqbwGXQ>
- Science 3 - MELC Week 1: Matter. <https://www.youtube.com/watch?v=MwaiP5iOrkw>
- Human Body - Science for Kids - Rock 'N Learn.
<https://www.youtube.com/watch?v=AHQGNb0zBgg&t=134s>
- Natural Disasters compilation | The Dr. Binocs Show | Best Learning Videos for Kids.
<https://www.youtube.com/watch?v=HaEmlakO7f4&t=17s>

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