



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

## **RESEARCH GUIDE: SCIENCE 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 SCIENCE

#### I. SCOPE NOTE

*Integrated Science, a course designed for high school students needing an entry level science course covering basic concepts found in earth science, biology, astronomy, physics and general inquiry. [oddyseyware.com](http://oddyseyware.com)*

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

##### BT:

- Science

##### RT:

- Physics
- Chemistry
- Earth Science
- Earth
- Space
- Force
- Motion
- Energy
- Living Things
- Matter

##### NT:

- Biodiversity
- Earthquakes
- Volcanoes
- Equilibrium
- Solids
- Fluids
- Electromagnetic Waves
- Electricity
- Magnetism
- Reproductive System
- Endocrine System
- Nervous System
- Evolution
- Ecology
- Gases
- Biomolecules
- Carbohydrates
- Proteins
- Nucleic Acid
- Lipids

### III. INFORMATION RESOURCES

#### A. LIBRARY RESOURCES

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

#### ➤ E-JOURNALS

- Science and Children. [https://www.proquest.com/publication/publications\\_41736](https://www.proquest.com/publication/publications_41736)
- Science Activities. [https://www.proquest.com/publication/publications\\_35290](https://www.proquest.com/publication/publications_35290)
- Science Scope. [https://www.proquest.com/publication/publications\\_36017](https://www.proquest.com/publication/publications_36017)
- The Science Teacher. [https://www.proquest.com/publication/publications\\_40590](https://www.proquest.com/publication/publications_40590)
- Journal of Natural Resources and Life Sciences Education. [https://www.proquest.com/publication/publications\\_33242](https://www.proquest.com/publication/publications_33242)
- Journal of Experimental and Theoretical Physics. [https://www.proquest.com/publication/publications\\_2043679](https://www.proquest.com/publication/publications_2043679)
- Plant Systematics and Evolution. [https://www.proquest.com/publication/publications\\_2043620](https://www.proquest.com/publication/publications_2043620)
- American Journal of Physics. [https://search.proquest.com/central/publication/publications\\_44916](https://search.proquest.com/central/publication/publications_44916)
- School Science and Mathematics. [https://search.proquest.com/central/publication/publications\\_41443](https://search.proquest.com/central/publication/publications_41443)
- Journal of Science Teacher Education. [https://search.proquest.com/central/publication/publications\\_55373](https://search.proquest.com/central/publication/publications_55373)
- Journal of Thermophysics and Heat Transfer. <http://dx.doi.org/10.2514/2.6484>
- Physics Today. <https://search.proquest.com/docview/1428615854?accountid=1905>
- Ecosphere. <http://dx.doi.org/10.1002/ecs2.1619>

#### ➤ E-THESES

- Bryantt, T. S. (2020). Relationships between in-situ tests and soil cyclic strength for earthquake hazard characterization in the Pacific Northwest (Order No. 28086474). Available from ProQuest Central. (2486504506). Retrieved from <https://www.proquest.com/dissertations-theses/relationships-between-em-situ-tests-soil-cyclic/docview/2486504506/se-2?accountid=190548>
- Schnepf, N. R. (2019). Earth's oceanic electromagnetic signals and their applications in electromagnetic sensing, monitoring circulation, and hazard warning systems (Order No. 27539849). Available from ProQuest Central. (2334006210). Retrieved from <https://www.proquest.com/dissertations-theses/earths-oceanic-electromagnetic-signals-their/docview/2334006210/se-2?accountid=190548>
- Gallant, E. (2019). Modeling and assessing lava flow hazards (Order No. 13904566). Available from ProQuest Central. (2293978262). Retrieved from <https://www.proquest.com/dissertations-theses/modeling-assessing-lava-flow-hazards/docview/2293978262/se-2?accountid=190548>
- Shahandeh, M. P. (2019). The evolution of male mate choice differences among drosophila species (Order No. 27547651). Available from ProQuest Central. (2383160657). Retrieved from <https://www.proquest.com/dissertations-theses/evolution-male-mate-choice-differences-among-em/docview/2383160657/se-2?accountid=190548>

- Zhang, Z. (2018). Intrinsic and extrinsic noise in motor skill acquisition (Order No. 10837618). Available from ProQuest Central. (2138720137). Retrieved from <https://www.proquest.com/dissertations-theses/intrinsic-extrinsic-noise-motor-skill-acquisition/docview/2138720137/se-2?accountid=190548>
- Wright, Ramsey A. (2007). Exploring an ecological analogy: Testing connectance and diversity concepts for use in industrial ecology. Available from ProQuest Central. <https://search.proquest.com/docview/304794452?accountid=190548>
- Philippi, Kristen H. (2010). An examination of student understanding of the use of \*models in science and conceptual understanding of electricity and magnetism. Available from ProQuest Central. <https://search.proquest.com/docview/741224443?accountid=190548>
- Graves, Genevieve J. (2009). Early type galaxies: Mapping out the two-dimensional space of galaxy star formation histories. Available from ProQuest Central. <https://search.proquest.com/docview/304859287?accountid=190548>
- Lewis, Donna S. (2010). Global educational ecosystem: Case study of a partnership with K–12 schools, community organizations, and business. Available from ProQuest Central. <https://search.proquest.com/docview/89185040?accountid=190548>
- Li, Hui (2017). Effects of water content, mineralogy, and anisotropy on the mechanical properties of shale gas rocks. Available from ProQuest Central. <https://search.proquest.com/docview/1937932270?accountid=190548>

## B. OPEN ACCESS

### ➤ FREE E-BOOKS

- Tarbuck, Edward J. (2015). Earth science, 14<sup>th</sup> ed. USA: Pearson Education, Inc. <https://www.pdfdrive.com/earth-science-d166758327.html>
- Walker, Jearl, Halliday, David, Resnick, Robert (2014). Fundamentals of physics (10<sup>th</sup> ed.). Hoboken, NJ: John Wiley & Sons. <https://www.pdfdrive.com/fundamentals-of-physics-textbook-d33735280.html>
- Privett, Grant & Jones, Kevin (2013). The constellation observing atlas. New York: Springer Science+Business Media.
- Begon, Michael, Townsend, Colin R. & Harper, John L. (2006). Ecology: From individuals to ecosystems (4<sup>th</sup> ed.). Malden, MA: Blackwell Publishing. <https://www.pdfdrive.com/ecology-from-individuals-to-ecosystems-e158515806.html>
- McGraw-Hill Ryerson high school biology 12.(n.d.). (n.p). <https://www.pdfdrive.com/mcgraw-hill-ryerson-high-school-biology-e176397103.html>
- Byron, Helen. (2000). Biodiversity Impact. Bedfordshire: Sandy. <https://www.pdfdrive.com/biodiversity-impact-biodiversity-and-environmental-impact-assessment-e50564353.html>
- Kusky, Timothy. (2008). Earthquakes: Plate Tectonics and Earthquake Hazard. New York: Facts on File, An imprint of Infobase Publishing. <https://www.pdfdrive.com/earthquakes-plate-tectonics-and-earthquake-hazards-d184150086.html>
- Erickson, Jon. (2001). Plate Tectonics: Unraveling the Mysteries of the Earth, rev. ed. New York: Checkmark Books An imprint of Facts On File, Inc. <https://www.pdfdrive.com/plate-tectonics-unraveling-the-mysteries-of-the-earth-revised-edition-d168696165.html>
- Purcell, Edward M. (2013). Electricity and Magnetism. Mexico City: Cambridge University Press. <https://www.pdfdrive.com/electricity-and-magnetism-sicyon-d18019651.html>

- Kotz, John C. (2012). Chemistry & Chemical Reactivity, 8<sup>th</sup> ed. USA: Cengage Learning. <https://www.pdfdrive.com/chemistry-and-chemical-reactivity-e162739214.html>

#### ➤ FREE E-JOURNALS

- Physics Open. <https://www.sciencedirect.com/journal/physics-open>
- Physics and Chemistry of the Earth. <https://www.sciencedirect.com/journal/physics-and-chemistry-of-the-earth>
- Physics Letters. <https://www.sciencedirect.com/journal/physics-letters>
- Earth-Science Reviews. <https://www.sciencedirect.com/journal/earth-science-reviews>
- Energy. <https://www.sciencedirect.com/journal/energy>
- Electricity Journal. <https://www.sciencedirect.com/journal/the-electricity-journal>
- Heliyon. <https://doi.org/10.1016/j.heliyon.2020.e04565>
- Journal of Electroanalytical Chemistry. <https://doi.org/10.1016/j.jelechem.2020.114186>
- Comptes Rendus Physique. <https://doi.org/10.1016/j.crhy.2006.11.005>
- Polymer. <https://doi.org/10.1016/j.polymer.2020.122642>
- Materials Today. [https://doi.org/10.1016/S1369-7021\(09\)70287-1](https://doi.org/10.1016/S1369-7021(09)70287-1)

#### ➤ FREE E-THESES

- Rozema, S. (2021). Effectively communicating biodiversity loss through audiovisual stories. (Thesis). , School of Education and Communication. Retrieved from <http://urn.kb.se/resolve?urn=urn:nbn:se:hj:diva-53484>
- Chiriaco, G. (2020). A theoretical study of out of equilibrium phases of matter. (Doctoral Dissertation). Columbia University. Retrieved from <https://doi.org/10.7916/d8-z3xd-7k28>
- Sirait, J. (2020). Students' use of representations in solving physics problems: complete and incomplete force diagrams. (Doctoral Dissertation). University of Leicester. Retrieved from <https://doi.org/10.25392/leicester.data.13322732.v1> ; <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.819491>
- Hanford, J. K. (2020). Aquatic biodiversity and mosquito ecology in urban wetlands. (Thesis). University of Sydney. Retrieved from <http://hdl.handle.net/2123/23225>
- Raisse, M. (2020). Future electricity demand and grid connections of electric road systems for heavy transport. (Thesis). Chalmers University of Technology. Retrieved from <http://hdl.handle.net/20.500.12380/300769>
- Keenan, S. R. (2020). Molecular mechanisms that generate muscle fibre type diversity during vertebrate evolution. (Thesis). Monash University. Retrieved from <https://doi.org/10.26180/5f291b48394f9>
- Mohammad, Sayeed A. (2009). Adsorption Modeling of Coalbed Gases and the Effects of Water on Their Adsorption Behavior. (Thesis). Oklahoma State University. <http://hdl.handle.net/11244/7162>
- Belcher, Nathan T. (2017). Modeling Instruction in AP Physics C: Mechanics and Electricity and Magnetism. (Doctoral Dissertation). University of South Carolina. <https://scholarcommons.sc.edu/etd/455>
- Clarkin, Owen J. (2012). Chemical Reaction Dynamics at the Statistical Ensemble of Molecular Limits. (Dissertation). Canada: Queen's University. <https://www.pdfdrive.com/chemical-reaction-dynamics-at-the-statistical-ensemble-and-molecular-frame-limits-d58703858.html>

### C. PROFESSIONAL ORGANIZATIONS

- Association for Science Teacher Education. <https://theaste.org/>
- Philippine Physics Society. <https://philippinephysicsociety.org/>
- Association for Science Education. <https://www.ase.org.uk/>
- National Academy of Science and Technology. <https://www.nast.ph/>
- American Institute of Biological Science. <https://www.aibs.org/home/index.html>
- American Association for the Advancement of Science. <https://www.aaas.org/>
- American Association of Physics Teachers. <https://www.aapt.org/>
- American Astronomical Society. <https://aas.org/>
- American Chemical Society. <https://www.acs.org/content/acs/en.html>

### D. OTHER RELATED WEB PORTALS

- Ed Heads. <https://edheads.org/>
- Science Kids. <https://www.sciencekids.co.nz/gamesactivities.html>
- National Geographic Kids. <https://kids.nationalgeographic.com/>
- Wonderville. <https://wonderville.org/>
- Teacher Try Science. <http://teacherstryscience.us-east.mybluemix.net/>

### E. RELATED RESEARCH GUIDES

- University of Wisconsin Whitewater. <https://libguides.uww.edu/scibus>
- Georgia Gwinnett College. [https://libguides.ggc.edu/sb.php?subject\\_id=99002](https://libguides.ggc.edu/sb.php?subject_id=99002)
- JMU Libraries. [https://guides.lib.jmu.edu/sb.php?subject\\_id=65004](https://guides.lib.jmu.edu/sb.php?subject_id=65004)
- University of Wisconsin-Madison Libraries. <https://researchguides.library.wisc.edu/expbio100>
- Catawba Library. <https://catawba.libguides.com/c.php?g=630002>

## IV. TUTORIALS

- Electromagnetic wave. <https://www.youtube.com/watch?v=CQV8PWRBhDc>
- Evidences of evolution. <https://www.youtube.com/watch?v=BEGeaKAH0ic>
- Reproductive and endocrine system. <https://www.youtube.com/watch?v=F3zx9AHTjy8>
- Hormones in the system. <https://www.youtube.com/watch?v=R6O2NusypGU>
- Nervous system: parts and functions. <https://www.youtube.com/watch?v=plFPpJ-nM8g>
- States of matter: Solid, liquid, gas. <https://www.youtube.com/watch?v=MrTxRn9MNWM>
- Newton's laws of motion. <https://www.youtube.com/watch?v=BCnWQrXoHeo>
- What is force (Physics)?. <https://www.youtube.com/watch?v=LSa17eedH9A>
- Classification of living things. <https://www.youtube.com/watch?v=nExSvjo3NT0>
- WIZ IQ. <https://www.wiziq.com/tutorials/integrated-science>
- Conceptual Science. <https://conceptualscience.com/integrated-science-explorations/>
- Tutor Nerds. <https://tutornerds.com/integrated-science-tutoring/>
- Learn Science Academy. <https://learnscience.academy/integrated-science/>
- ISAM Interactive Internet Interface. <http://climate.atmos.uiuc.edu/isam2/>



**Prepared by:**

**Mr. Marvin A. Milla**

Layout

[mamilla@letranbataan.edu.ph](mailto:mamilla@letranbataan.edu.ph)

**Ms. Maria Rosiel C. Ordenes**

Subject Librarian

[mrcordenes@letranbataan.edu.ph](mailto:mrcordenes@letranbataan.edu.ph)

**Asst. Prof. Norady Mercado Pere**

Chief Librarian

[ndmercado@letranbataan.edu.ph](mailto:ndmercado@letranbataan.edu.ph)

For more inquiries, kindly e-mail us at [library@letranbataan.edu.ph](mailto:library@letranbataan.edu.ph)