



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

## **RESEARCH GUIDE:**

### **SCIENCE 8**

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## 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:

- Science

##### RT:

- Biology
- Chemistry
- Earth Science
- Physics

##### NT:

- Motion
- Work
- Energy
- Light
- Sound
- Heat
- Temperature
- Electronics
- Ohm's Law
- Circuits
- Natural World
- Earthquake
- Typhoon
- Disaster Preparedness
- Celestial Bodies
- Comets
- Asteroids
- Meteors
- Matter
- Elements
- Compounds

- Mixture
- Phase Change
- Atom
- Periodic Table
- Electron Configuration
- Digestive System
- Mitosis
- Meiosis
- Genetics
- Biodiversity
- Taxonomy

### III. INFORMATION RESOURCES

#### A. LIBRARY RESOURCES

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

##### ➤ E-BOOKS

- The Princeton Guide to Ecology (2009). Princeton: Princeton University Press.  
[https://www.proquest.com/publication/publications\\_55105](https://www.proquest.com/publication/publications_55105)

##### ➤ E-JOURNALS

- The American Biology Teacher.  
[https://www.proquest.com/publication/publications\\_787](https://www.proquest.com/publication/publications_787)
- Earth - Science Reviews. [https://www.proquest.com/publication/publications\\_45394](https://www.proquest.com/publication/publications_45394)
- American Scientist. [https://www.proquest.com/publication/publications\\_40798](https://www.proquest.com/publication/publications_40798)
- The School Librarian. [https://www.proquest.com/publication/publications\\_296199](https://www.proquest.com/publication/publications_296199)
- The Science Teacher. [https://www.proquest.com/publication/publications\\_40590](https://www.proquest.com/publication/publications_40590)
- 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

- Dooley, C. M. (2020). Differences between modeling instruction and non-modeling instruction in high school biology student scientific

- reasoning (Order No. 28025220). Available from ProQuest Central. (2434047969). Retrieved from <https://www.proquest.com/dissertations-theses/differences-between-modeling-instruction-sup-tm/docview/2434047969/se-2?accountid=190548>
- Cutler, J. S. (2019). Biodiversity, biogeography, and conservation of freshwater fishes in Gabon (Order No. 22619876). Available from ProQuest Central. (2307190713). Retrieved from <https://www.proquest.com/dissertations-theses/biodiversity-biogeography-conservation-freshwater/docview/2307190713/se-2?accountid=190548>
  - Trowbridge, C. A. (2018). When you see it: Intersections of formal and informal science learning (Order No. 10793508). Available from ProQuest Central. (2046417916). Retrieved from <https://www.proquest.com/dissertations-theses/when-you-see-intersections-formal-informal/docview/2046417916/se-2?accountid=190548>
  - Francis, M. F. (2018). Digital storytelling with project-based learning: Engaging high school males in space science to improve academic achievement (Order No. 10975214). Available from ProQuest Central. (2132063209). Retrieved from <https://www.proquest.com/dissertations-theses/digital-storytelling-with-project-based-learning/docview/2132063209/se-2?accountid=190548>
  - Kittner, D. (2008). Disaster preparedness (Order No. 1455694). Available from ProQuest Central. (304838412). Retrieved from <https://www.proquest.com/dissertations-theses/disaster-preparedness/docview/304838412/se-2?accountid=190548>
  - Moore, A. (2007). Novel functions of mitochondrial proteins in chromosome segregation during meiosis and mitosis (Order No. 3262476). Available from ProQuest Central. (304861299). Retrieved from <https://www.proquest.com/dissertations-theses/novel-functions-mitochondrial-proteins-chromosome/docview/304861299/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. (2014). Fundamentals of physics, 10<sup>th</sup> ed. USA: John Wiley & Sons, Inc. <https://www.pdfdrive.com/fundamentals-of-physics-textbook-e33735280.html>
- Earth Science (2013). US: Utah State Office of Education. <https://www.pdfdrive.com/earth-science-e18773918.html>
- Biology Questions and Answers. <https://www.pdfdrive.com/biology-questions-and-answers-e19452038.html>
- Glencoe. (2008). Chemistry: matter and change. New York: McGraw-Hill, Inc. <https://www.pdfdrive.com/chemistry-matter-and-change-d189898843.html>
- Glencoe. (2005). Physics: principles and problems. USA: McGraw-Hill Companies. <https://www.pdfdrive.com/physics-principles-and-problems-by-a-glencoe-programpdf-d26314926.html>
- CPO focus on physical science (2007). USA: 7 Delta Education LLC. <https://www.pdfdrive.com/physical-science-textbook-d30512382.html>
- Houk, Clifford C., Post, Richard (1996). Chemistry Concepts and Problems: A Self-Teaching Guide (2<sup>nd</sup> ed.). New York: John Wiley. <https://www.pdfdrive.com/chemistry-concepts-and-problems-a-self-teaching-guide-wiley-self-teaching-guides-e158743257.html>
- Poling, Bruce. (2001). The Properties of Gases and Liquids. USA: McGraw-Hill Companies, Inc. <https://www.pdfdrive.com/properties-of-gases-and-liquids-d25464935.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>
- Chemistry and Biology. <https://www.sciencedirect.com/journal/chemistry-and-biology>
- Earth-Science Reviews. <https://www.sciencedirect.com/journal/earth-science-reviews>
- Heliyon. <https://doi.org/10.1016/j.heliyon.2020.e04565>
- Journal of Electroanalytical Chemistry. <https://doi.org/10.1016/j.jelechem.2020.114186>

- ComptesRendus 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

- Mehta, C. A. (2019). On the Ablation of Meteors and the Implications on Organic Delivery to Earth. (Thesis). University of South Florida. Retrieved from <https://scholarcommons.usf.edu/etd/8667>
- Shenk, L. (2018). Student Reasoning Strategies Concerning Periodic Trends. (Doctoral Dissertation). University of Minnesota. Retrieved from <http://hdl.handle.net/11299/199020>
- Zhang, X. (2018). Radio detection of meteors and other near-Earth targets. (Thesis). Curtin University of Technology. Retrieved from <http://hdl.handle.net/20.500.11937/76345>
- Jones, A. M. (2016). Does project based learning as a teaching strategy increase student learning and interest in earth science?. (Masters Thesis). Montana State University. Retrieved from <https://scholarworks.montana.edu/xmlui/handle/1/10061>
- Ai , C. (2012). Effect of tidal dissipation on the motion of celestial bodies. (Thesis). Penn State University. Retrieved from <https://submit-etda.libraries.psu.edu/catalog/16233>
- 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 Association of Chemistry Teachers. <https://pact.ph/>
- Philippine Physics Society. <https://philippinephysicsociety.org/>
- Association for Science Education. <https://www.ase.org.uk/>
- American Association for the Advancement of Science. <https://www.aaas.org/>
- National Science Teaching Association. <https://www.nsta.org/nstas-officialpositions/international-science-education-and-national-science-teaching-association>
- 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

- Potential Energy and Kinetic Energy. <https://www.youtube.com/watch?v=irPkN3DzBxo>
- Colors of Light. <https://www.youtube.com/watch?v=pFMMHNI4VIU>
- Heat and Temperature. <https://www.youtube.com/watch?v=ZVK4uMO2RQk>
- Electric Circuit. <https://www.youtube.com/watch?v=B7h2mKqFHV>
- Forces. <https://www.youtube.com/watch?v=bc5o3Piw3bg>
- Digestive System: Structures and Function. <https://www.youtube.com/watch?v=IJr9wch-aCw>
- Biodiversity of Species in the Philippines. <https://www.youtube.com/watch?v=2NQ0-WzEdlo>
- 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/>

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