



Northville Middle Schools SCIENCE OLYMPIAD 2017

Northville District Library

Division B Events Print & Online Supportive Resources

Print Resources

Browse the library for books in the Reference, Adult and Juvenile Nonfiction Collections, under the designated Dewey Decimal numbers for event topics, or request books on these topics from other libraries in The Library Network (TLN) via inter-library loan. **Build/construction related events not included.**

Division B Events/Topic Clarification	Dewey Decimal Numbers/Subject Headings
Anatomy & Physiology <i>General human anatomy and physiology, Focus on Endocrine System, Nervous System and Sense organs.</i>	611 - Human anatomy 573.4, 616.4 - Endocrine Glands 573.8, 612.8 - Nervous System 573.87 - Sense Organs
Chemistry Lab <i>Thermodynamics and gas laws</i>	540 – 547 – Chemistry 536.7, 541.369, 621.402, 660.29 - Thermodynamics 665.7 - Gases
Crime Busters <i>Forensic sciences</i>	363.25 - Detection of crime, Forensic sciences 614 – Forensic medicine
Disease Detectives <i>Foodborne disease, Global population growth issues, Epidemiology, disease investigation</i>	304.6 – Population 614.4 - Incidence of/public measures to prevent disease 614.49 - History of epidemics 616.904 - Special topics of communicable diseases 615.954 - Foodborne Diseases
Dynamic Planet <i>Tectonics</i>	551.136 - Plate Tectonics
Ecology <i>North American biomes</i>	577 - Ecology 577.82 – Biotic communities 577.3 – 577.786 – Ecosystems, North America
Experimental Design <i>Science methodology, scientific method, process, observations, writing hypotheses</i>	502.8 – Microbiology, auxiliary techniques and procedures; apparatus, equipment, materials 507.21 – Science, research methods 507.8 – Science, use of apparatus and equipment in study and teaching 808.066 - Professional, technical, expository writing



NORTHVILLE DISTRICT LIBRARY

212 W. Cady Street ▪ Northville, MI 48167 ▪ 248.349.3020 ▪ www.northvillelibrary.org

<p>Fast Facts <i>Teams fill in a grid of terms that begin with a given letter to match science categories</i></p>	<p>503 – Science dictionaries; Science encyclopedias</p>
<p>Food Science <i>Chemistry of food and food grains, energy content of solid food stuff</i></p>	<p>633.1, 664.7 - Grain 644 – Food composition 644.07 – Food analysis</p>
<p>Invasive Species <i>Invasive species in local and national ecosystems</i></p>	<p>577.18, 578.62 – Biological invasions, Nonindigenous pests, Introduced organisms 579 – Microorganisms 595 – Introduced insects</p>
<p>Meteorology <i>Severe storms</i></p>	<p>551.5 – Meteorology 551.55 – Storms, Severe Storms 577.22 - Climactic Changes</p>
<p>Microbe Mission <i>Analyze data pertaining to microbes</i></p>	<p>579 – Microbiology</p>
<p>Optics <i>Knowledge of geometric and physical optics</i></p>	<p>535 – Optics</p>
<p>Reach for the Stars <i>Astronomy, stars, and constellations. Evolution of stars, especially star forming regions and supernova remnants</i></p>	<p>520 – Astronomy and allied sciences 523.1 – The universe, galaxies, quasars 523.2 – Planetary systems 523.3 – 523.7 – Specific parts of solar system 523.8 – Stars 523.844 – Supernovae 525 – Earth (astronomical geography)</p>
<p>Road Scholar <i>Map reading skills, state highway maps, USGS topographic maps, Internet generated maps, road atlas or satellite/aerial images</i></p>	<p>910 – Geography 912 - Atlases, maps, charts and plans; Graphic representations of surface of earth 912.014 - Map reading 912.7 – Roads – US – Maps</p>
<p>Rocks & Minerals <i>Demonstrate knowledge of rocks and minerals</i></p>	<p>552 – Rocks 333.85, 549 – Minerals</p>
<p>Write It Do It <i>Technical writing</i></p>	<p>808.066 - Professional, technical, expository writing</p>



MeLCat: Expanded Book Borrowing



MeLCat: Michigan eLibrary Catalog

Search for books available for inter-library loan beyond The Library Network at hundreds of additional libraries throughout the state of Michigan, including numerous academic institutions. Access MeLCat through the Northville District Library's online library catalog featured on the library's website, www.northvillelibrary.org

Online Resources

To access the Northville District Library's online resources go to www.northvillelibrary.org. Click on the *RESEARCH & LEARN* menu icon. Next, choose *Online Resources A-Z*. Select a resource by title from the alphabetical list. Enter your Northville District Library card number barcode and begin searching. These online resources are also available on the library's public computers. See list of suggested resources below:



Britannica School

Choose either **Middle or High School level** to start your search for curriculum-based content. Authoritative and visually engaging, Britannica goes beyond encyclopedia content alone, with downloadable videos, links to vetted websites, and citation generators.



Expanded Academic ASAP

Meets research needs across academic disciplines with scholarly articles and reports.



Gale Virtual Reference Library (GVRL) eBooks

Over 300 digitized reference works and encyclopedias, once available only at the library. These e-books cover all disciplines and offer a wide range of information that is scholarly and easy to retrieve. Limit your search to one discipline or a specific publication, or across all topics. Excellent research resource for high school and beyond.



General Reference Center Gold

Easy-to-use resource to locate articles, with emphasis on general magazines for the public, as well as newspapers, journals, and trade publications. Also draws from standard reference books, to round out wide range of topics. Can be limited to a specific publication. Includes full-text and coverage back to 1980s.



National Geographic Kids & National Geographic Virtual Library

Experience amazing adventures in science, nature, culture, archaeology and space through books, pictures, and magazines. Search National Geographic Kids magazine from 2009 – present, over 200 National Geographic full-text books, and 500 kid-friendly full-color downloadable images. The NGVL also contains the digitized archive of National Geographic Magazine from 1888 to present, as well as a wide range of full-text books published by National Geographic.



NORTHVILLE DISTRICT LIBRARY

212 W. Cady Street ▪ Northville, MI 48167 ▪ 248.349.3020 ▪ www.northvillelibrary.org



Opposing Viewpoints

Draws from a wide array of sources to cover all angles of social issues today. Access viewpoint articles, statistics, primary documents, authoritative reference works, and full-text magazine and newspaper articles.



Power Search

Gale Infotrac collections offer articles and books from many sources, and are specialized for specific student groups (such as Infotrac Junior for Middle School) or topics (such as Psychology collection).



Research in Context

Authoritative content for the most-studied middle school topics, written specifically for grades 6 through 8. Offers topic overviews, videos, audio, primary sources, and more in a visually appealing content that is mobile friendly.



World Book Online

A multi-media encyclopedia with many special features, based on the authoritative World Book. Includes a variety of research tools to help students writing reports. Includes sound and animation clips, primary sources, and links to editor-reviewed Websites.



NORTHVILLE DISTRICT LIBRARY

212 W. Cady Street ▪ Northville, MI 48167 ▪ 248.349.3020 ▪ www.northvillelibrary.org