

The goals of this project are:

1. To find examples of unsolved problems in mathematics
2. To become familiar with online research resources
3. To become familiar with the library's research resources, including interlibrary loan

In this lab you will identify potential topics and resources for your research paper on an unsolved problem in mathematics. Unless an external link is provided, all the resources mentioned below are available from the Good Library website.

1. Before you start your research, take a look at the following citation guides, so that when you find a resource you are interested in citing, you know what information you need to record.
 - Good Library citation style guides
 - AMS citation guide

You might also want to start an email to yourself so that you can copy and paste links to websites that you want to come back to.

2. To become familiar with examples of unsolved math problems, browse the following websites:
 - WolframMathWorld list of unsolved problems
 - Clay Mathematics Institute Millennium Problems
 - Wikipedia list of unsolved problems

List keywords or keyword phrases that relate to five unsolved mathematical problems that look interesting to you.

3. To obtain background information about the five problems you selected, go to the Good Library home page and consult the following reference sources using the keywords you recorded above.

- Credo Reference
- Oxford Reference Online
- AccessScience

List citation information (name of book, article title, author, page number, database name, etc.) of sources to return to later.

4. Identify books to check out, and (if not available in Good Library) request via interlibrary loan.

- Good Library online catalog
- World Catalogue

Jot down call numbers of books in Good Library. Write names of books you requested interlibrary loan.

5. Find biographies of mathematicians who posed the problems.
 - Biography in Context
 - World Catalogue

Write down the mathematicians' names below, and list citation information for a biography of each one.

6. Locate journal articles. Request ones not available by using interlibrary loan.
 - Academic Search Premier, an EBSCOhost database
 - Use the search engines Google Scholar and Scirus and request articles interlibrary loan

List citation information for journal articles below, and make a note of each on that you requested via interlibrary loan.