

Become familiar with examples of unsolved math problems

- WolframMathWorld: Unsolved problems
<http://mathworld.wolfram.com/UnsolvedProblems.html>
- Clay Mathematics Institute Millennium Problems <http://www.claymath.org/millennium/>
- Look at the Wikipedia article on unsolved problems in mathematics
- Browse the book [The millennium problems](#): The seven greatest unsolved mathematical puzzles of our time
- Browse the article,
Smale, S. (1998). Mathematical problems of the next century. *Mathematical Intelligencer*, 20(2). 7-15. Retrieved from Academic Search Premier database.
(Copies available on shelf-reserve and at the front of the room)

Consult reference sources for background information (Good Library home page)

- Credo Reference
- Oxford Reference Online
- AccessScience

Identify books and request interlibrary loan if not available in Good Library

- WorldCat.org
- Good Library online catalog

Find biographies of mathematicians who posed the problems

- Biography Resource Center

Locate journal articles

- Academic Search Premier, an EBSCOhost database
- Use the search engines [Google Scholar](#) and [Scirus](#) and request articles interlibrary loan

Utilize citation guides

- Good Library citation style guides
- Purdue Online Writing Lab (OWL) [MLA](#)
- Purdue OWL [APA](#)

Worksheet

1. **Become familiar** with examples of unsolved mathematical problems by browsing the four sources referenced in section #1 or the article by Smale.
2. **List keywords** or keyword phrases that relate to five unsolved mathematical problems that look interesting to you.

3. **Consult reference sources** using the keywords recorded above. List citation information (name of book, article title, author, page number, database name, etc.) of sources to return to later.

4. **Identify books.** Jot down call numbers of books in the Good Library. Request via interlibrary loan ones not available in the Good Library. Write names of books you requested interlibrary loan:

5. **Find biography source.** Is your mathematician in Biography Resource Center? List citation information. Not in BRC? Find a book in WorldCat.org on your mathematician.

6. **Locate journal articles.** Request ones not available by using interlibrary loan.
