



Object Composition Gr. 8 January 2016

northmiddlelib.weebly.com

This pathfinder will be useful in finding information about your chosen object. After research is complete, you will create a box, a PPT, a Prezi, or possibly a poster using [Poster My Wall](#). **Keep a record of ALL resources you use.** An easy way to do that is to copy the URL of a web site and paste it into a Word Document and save it in your TSF or login in to your email and use OneDrive for Business to save in the “cloud.” Or, email yourself information!

Research Questions:

- What is the function of the object?
- What are the major materials (composition) of the object?
- Why were these materials chosen?
- What is the origin of one of the materials?
- Was the object invented and if so, by whom? When and where did it first appear? How do original designs and choice of materials differ from those in use today?

Reference Background: User ID if needed: 6039sxnms
Password: (ask your teacher or librarian)

- [Encyclopedia Britannica](#)
- [Columbia Electronic Encyclopedia](#) (In EBSCO’s Student Research Center. Access from the library web page.)
- [Internet Public Library](#)

Resources: (Make sure to check the web resources below before simply “Googling.” You might also try www.sweetsearch.com or www.search.vippy.com)

Books

- See the cart in the library, or search **Destiny**. Also, look under the tab “Copy Categories.” Choose the list *Invention/Object Books for Sci.*
- Library staff can photocopy the back (verso) page of the title page in the library so that you have all the info you need to complete a bibliography - list of sources

Web Sites

- Your main resource! Print your article from: [How Products Are Made](#): Click on a volume number or scroll down and click on the alphabet—good place to choose a topic!
- [The Great Idea Finder](#): Good information here, remember that your object might have another name, like “Scotch tape” could be cellophane tape or gum could be “chewing gum”
- [Enchanted Learning Zoom Inventors and Inventions](#)
- [PBS People and Discoveries](#)
- [About.com Inventors](#)
- [Museum of Ancient Inventions](#)

Search Aids

Search Terms

For computer or database searches, use “quotation marks” around two or more words, example “silly putty” or “history of chewing gum”

- Your invention or object name
- History of invention/object name in quotes

Call Number (Dewey Decimal number on the spine)

- Varies, mainly 600 numbers such as 677 Mor, this book title: *Textiles* or 546 Som: *Silicon*

Library catalogs

- Use [Destiny Online Catalog](#), choose Sioux City Schools to see all schools. Mrs. Jarman or Ms. Sweeney can request books from other school libraries in the district.
- [Sioux City Public Library](#)

- [Brainpop.com](http://brainpop.com) – the password has changed, ask your teacher or librarian
- [NoodleTools](http://noodletools.com) – use to create your bibliography. Save your source information! Login to NT with your login to the computer and your ID number (lunch or library number).

Web Pages and Web Portals:

- Don't forget [Webpath Express in Destiny](http://webpathexpress.com)! On the left, choose Webpath Express, type in your search term. You can limit results by grade level and domain (.org, .gov, etc.)

Databases:

- [Gale Biography in Context](http://gale.com) – on the library Weebly page. Look up information about your inventor/discoverer!
- [Rosen Core Concepts Periodical Table](http://rosen.k12.il.us) – get info on elements! Use our normal login at home.
- The encyclopedias previously mentioned under Reference Background are also databases!

Multimedia Resources (Mrs. Ford does not want you to use as a source, but you can watch a video if it is relevant.)

- [Learn 360 on the Iowa AEA Database page](http://www.learn360.com): Login with the AEA login: 6039sxnms and nwaec. Example: *Chocolate*:
<http://www.learn360.com/ShowVideo.aspx?ID=129129&SearchText=chocolate>
- [Safari Montage](http://10.211.0.60/SAFARI/montage/play.php?keyindex=15334&location=local): See the Internet Explorer favorites (the star icon) (at school) under “Video Resources” Choose North Middle, and login with your school computer login and password. Limit your search by grade level after you enter a search term. Example: *Copper* used on the Statue of Liberty:
<http://10.211.0.60/SAFARI/montage/play.php?keyindex=15334&location=local>
- [Youtube](http://www.youtube.com) videos about your object. Save the link to cite your video sources. (Email it to yourself, use a flash drive to save a video, create a Google Doc or use SkyDrive) Example: Manufacturing Wilson *footballs* in Ohio: <http://www.youtube.com/watch?v=K8kZP4dRe3w>
- Advertisements about your object (pull your audience in!). Example: *Mascara* application: <http://www.youtube.com/watch?v=aybYmZXtqjU>
- [Teachertube](http://teachertube.com) videos: *Cotton*:
[http://teachertube.com/viewVideo.php?video_id=119912&title=Cotton Plant of Many Uses](http://teachertube.com/viewVideo.php?video_id=119912&title=Cotton_Plant_of_Many_Uses)
Web site: <http://www.cottonacres.com/>
- Promotional videos or information from a commercial site, for example, if you are researching *chocolate*, you might find information at: www.hersheys.com. You could then click on “Our Story” and then see the timeline.
- [History.com](http://www.history.com) – Example: History of *chocolate*: <http://www.history.com/shows/modern-marvels/videos/modern-marvels-valentines-day---history-of-chocolate#modern-marvels-valentines-day---history-of-chocolate>

Jane Warren and Shelley Sweeney, EMS and NMS Libraries

**** You can evaluate other resources using criteria at: www.THEpathfinderproject.org/evaluate.html ****

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