

Assignment 4:

Non-fossil fuel AC device: A hand fan (un abanico).

Design and make a hand-powered fan to cool yourself off. Make something that can go in your suitcase and that you can carry along with you to cool off from afternoon temp's that can be around 85 degrees during our visit.

The high times for fans in Puerto Rico was the 19th century. They're associated with the music and culture of La Danza. However, hand fans have a longer history, as the wikipedia and all hand fans websites listed below say. The All hand fans says that Columbus brought a feather fan back from his first voyage as a gift for the Queen ('Elisabeth' is a translation of 'Isabel,' the name used on the Spanish language part of the All Hand Fans website). Fans have be created and used in Asian, Pre-Classic, Classic, African, and American Cultures. Folding fans were invented in Japan.

As will be the case with the kite assignment, consider this Thursday's assignment the first draft of your design. You'll be putting the final version in your suitcase to take with you.

Here are your resources:

[http://en.wikipedia.org/wiki/Hand\\_fan](http://en.wikipedia.org/wiki/Hand_fan)

[http://en.wikipedia.org/wiki/European\\_Hand\\_Fans\\_in\\_the\\_Eighteenth\\_Century](http://en.wikipedia.org/wiki/European_Hand_Fans_in_the_Eighteenth_Century)

<http://www.ladanza.com/lenguaje.htm#english>

<http://www.allhandfans.com>

<http://www.fan-museum.org/history.asp>

<http://www.handfanmuseum.com/multimedia.html>

[http://www.imprintitems.com/custom/spl/8216805?utm\\_source=google&utm\\_medium=base&utm\\_campaign=SPLfeed](http://www.imprintitems.com/custom/spl/8216805?utm_source=google&utm_medium=base&utm_campaign=SPLfeed)