

Name:

Date:

Class:

## Pre-Activity Homework

Each group creates a 5-slide presentation that explains, with pictures, the reasons by which traditional electronics are used for smart textiles and describes challenges for their optimal use for “*eTextile*” use.

For example, students should explain the cost of processing silicon for transistors in electronics, the use of rare earth metals, the difficulties in recycling, the fragility, cost and weight of existing devices, etc. and how these factors may prohibit commercial production and used of these types of materials in “*eTextiles*”.

Students can research these on their own with some initial guidance from the teacher. Of the 5 slides, first can be title slide and last should be references/sources. These slides will be the start of the final presentation they will develop during the EDP process.

References for student research include but are not limited to the following list of websites.

- Transparent and Flexible Screens of the Future, <https://youtu.be/gqsqFWq2qHU>
- Welcome to Project Jacquard, Google ATAP, <https://youtu.be/qObSFdfe7I>
- PSFK Innovation Debrief: The Future of Wearable Tech, Jan 8, 2014, LinkedIn Slideshare  
<http://www.slideshare.net/PSFK/psfk-future-of-wearable-tech-summary-presentation>
- Cute Circuit: Wearable Technology, Vision and History  
[http://cutecircuit.com/wearable-technology/#after full slider 1](http://cutecircuit.com/wearable-technology/#after_full_slider_1)
- Kennemer, Quentyn; Phandroid, <http://phandroid.com/2015/05/29/project-jacquard-smart-clothes/>