

IB Design Technology
Summer Assignment



1. Need for class: ((100) 4"x 6" notecards, pkg. colored pencils, pkg color markers, pkg. crayons, 1.5" or larger 3 ring binder, pencils, pen, quality eraser.

2. "Think and Evaluate" product that you are not satisfied with because of how they performance, function, appearance, cost, harming the environment, or perhaps you have identified a need for a product that does not exist yet. Just start thinking like a designer and look consider the pros and cons of different products you interact with and purchase this summer. No documentation needed

Will discuss during the first week of class. If you have never seen the TV show Shark Tank, check out an episode and start to think like a Shark.

3. Reading Read Chapter 1 Human Factors (pages 1-15) Click the link below and login. Email your starsi@wmrhsd.org if you have any questions with **Important IB Question** in the subject.

<http://bit.ly/2602P8R>

4. Take quality notes on 4"x 6" notecards.

Include but not limited to the following:

- ❖ Define Human Factors, Ergonomics, and Anthropometric data
- ❖ Divide the chapter into the following sections:
 - Anthropometrics
 - Psychological factors
 - Physiological Factors
- ❖ Graph for range of adjustability
- ❖ Psychological factors affecting design chart
- ❖ Flow chart representation of the human information processing system
- ❖ One example of the following scales (picture or chart)
 - Nominal
 - Ordinal
 - Interval
 - Ratio data scales
- ❖ Physiological data collection chart

3. Answer Sample Questions 1-15 at the end of the chapter.

4. Review vocabulary on the following site

<https://quizlet.com/126594081/dp-design-topic-1-human-factors-and-ergonomics-flash-cards/>

You will be responsible for these materials and the assignments the 3rd day of class.

Summer work gives us time to explore:

A hands-on team projects and a Group 4 team project pertaining to this chapter during the first two weeks of class. We will also review all chapter content during class for clarification of content.