**Human Body 2.0**

***Essential question:*** *How does the body provide cells everything they need to survive and maintain homeostasis?*

**Directions**. Each student was placed into a group and each group was given a body system to work on. You and your group of scientists have been tasked with relating your body system with each of the other systems and redesigning an organ in your body system to increase the efficiency of the overall human body system.

***Part 1. Type a two paragraph essay answering the following questions:***

1. How does the \_\_\_\_\_\_\_ system function? (answer in one paragraph)
2. Can the human body function without the \_\_\_\_\_\_ system? Explain why or why not. (answer in one paragraph)

* A one-page color picture of your system is to accompany the paragraphs.

***Part 2. Type a three paragraph essay answering the following questions:***

1. What organ is being redesigned?
2. What is the benefit of the organ you are redesigning?
3. Explain how the redesign of your organ increases the efficiency of the human body?

* A visual drawing/model that represents your changes. Be creative.

In paragraph form, each group must relate the body system they have been assigned to each of the other body systems and explain how your organ redesign increases the efficiency of the other systems under each systems label.

* Cardiovascular/Circulatory
* Excretory
* Digestive
* Respiratory
* Muscular
* Nervous
* Immune

Points will be awarded as follows:

* 5 Systems description and function: 25pts
* Written redesign explanation and purpose (Why did you choose these systems and what is bring changed? How will this increase efficiency in each of the systems?): 30 pts.
* Model of redesign: 20 pts
* Persuasive Redesign Brief: 15 pts
* Peer Contribution Review: 10 pts

Remember: You will be reviewed by and review your group members for contribution which will be 10% of your grade. Be sure to contribute as much as you can an evenly divide the workload. Off task during class will result in points being lost.

**You will submit your assignments and present your briefs on Monday 2/16/18.** You will have some time in class to work with your groups, but some work will need to be done on your own.