**Student Name: ­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Unit 1: Technological Inventions and Innovations**

Lesson 1: Inventions and Innovations: An Evolutionary Process

**File 1.1.3: Design Brief—21st Century Device**

Given the 21st century device assigned by your teacher, research the evolutionary history of the device, specifically the original inventions and the series of refinements to that invention up to the current device. You must have at least five design improvements reflected in your presentation.

Prepare a presentation, using either a webpage creator or slideshow maker to present your research. Be sure to properly cite your sources, either at the end of the slideshow or somewhere on your webpage. Submit the URL for your webpage or slideshow to your instructor to place on the class website.

**21st Century Devices**

|  |  |  |  |
| --- | --- | --- | --- |
| Solar Aviation | Solar-Powered LEDs | PowerRisers | Structural Insulated Panels (SIP) |
| Dissolvable Clothing | Cleaning Robots | Reusable Shopping Bag | Offshore Wind Farms |
| Air Car | iPod | Electric Car | YouTube |
| Artificial Heart | Blu-Ray Players | Solar Shingles | Smart Bullet |
| Self-Cleaning Windows | Fuel Cell Bike | Braille Glove | Glowing Fabric |
| Infrared Fever Scanning System | Translucent Concrete | Spandex Spacesuit | Hybrid Steam Engine |

The following rubric will be used to evaluate your work:

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Below Average** | **Average** | **Excellent** |
| **Outline of Evolutionary History** | The student included an incomplete list of events important to the history of the device. | The student included a substantial list of events important to the history of the device. | The student included a comprehensive list of events important to the evolutionary history of the device. |
| **Original Invention** | The student incompletely documents the original invention that led to the device used today. | The student documented the original invention, including inventor, year created, and image of the original invention, that led to the device used today. | The student fully documented the original invention, including inventor, year created, image of the original invention, and history of invention, that led to the device used today. |
| **List Innovations** | The student provides an incomplete list of innovations (less than five) to the original invention. | The student provides a substantial list of innovations (at least five) to the original invention. | The student provides a comprehensive list of innovations (more than five) to the original invention. |
| **Research Sources** | The student documents the sources for the information. | The student properly documents the sources for the information presented using APA or MLA citations. | The student properly documents the sources for the information presented using proper APA citations. |