



- I. **Visual Analysis** – do not take apart yet.
 - a. Using a digital camera, take at least three pictures of the product from different angles, save images to folder on server.
 - b. In *WORD*, create a caption under each image that identifies the particular object view.
 - c. Next to each image, write a description of the visual design principles and elements that are evident from that particular view.

- II. **Functional Analysis** – do not take apart yet
 - a. What is the purpose or primary function of the object?
 - b. Who is the manufacturer, how much did the object cost originally, and date object was acquired.
 - c. Photograph and label the exterior components (in *WORD*). If you are not sure what a particular component is called, then make a logical guess.
 - d. Make an educated guess as to how this product operates.
 - e. Prepare a black box model as below in your word file.



- III. **Structural Analysis** – yes, now but S L O W L Y
 - a. Carefully disassemble your product and identify each part by name by making a table, see sample below. Use excel!

Part#	Part Name	Qty	Function	Material	Interaction with Other Parts

- b. Take digital photos of parts, several small parts can go on one photo. Each photo with a corresponding number to the chart for identification.
 - c. Take a photo of the entire object “exploded” and ballooned in *WORD* – see my examples if you need help.

- IV. **Material Analysis & Manufacturing analysis** – See me about what part(s) from your project you need to research and report on.

- V. **Product improvement** – other than visual elements, what would you change about this product to make it better or to repair it? **SKETCH** ideas and put in your report. You can scan it, or take a photo!

- VI. **Deliverables - REPORT**
 - a. Cover sheet with group member’s names. Each section above must be titled correctly. Submit on or before due date in **BLACK AND WHITE**. I will edit and return so you can update and make a color copy for each group member. -12 points for printing in color first.

Special Note: stay on task, clean up, play nice. I am giving daily work ethic grades.