**Drafting and Design 9/10 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Drawing Assignment**

**Design Process:** Flashlight & Lamp 2D Ortho and 3D Model

**TASK**: At beginning of semester, student used pencil to sketch out drawings of a lamp and a flashlight. Use those sketches to 2D draw (possibly redesign) and 3D model with CAD.

**2D REQUIREMENTS**:

* 3 layers: template, Construction Lines, Drawing
* Your drawings must represent at least 2 orthographic views of your sketches.
* Scale accordingly (Floor lamp would be different than table lamp)
* Each item must have it’s own file
* Use A4 landscape or portrait template
* Label and dimension your drawings accordingly

**3D REQUIREMENTS:**

* 1 Additional layer to above: “3D Model”
* Visualize shape by breaking 2D drawing into geometric “pieces”
* Extrude shapes using techniques learned in class
* Be sure to check alignment of shapes in both Top and Front view
* Add textures and light sources
* Give each object a setting (Lamp: table and walls; Flashlight: surface)
* Follow colour print instructions used for 3D Logo rendering (300 dpi!)

**Submit your work:**

As a package for both the lamp and flashlight, be sure to submit:

1. sketch
2. 2D CAD printout
3. 3D Colour Model

**Evaluation**

Will be based on your process and ability through the design process. It is not only about your 3D model.



