



Unit #6 – Blender Assignment #1
TGJ4M – Communications Technology, Grade 12

Project Description:

- **Blender** is a 3D graphics application used for modeling, animating, rendering and other simulations.
- For this first assignment you are to use **Blender** to create one 3D model of a simple object of your choosing.

Materials:

You will be provided with the following materials:

- a digital camera
- scanner

Blender Model Examples:

- *House or building*
- *toy*
- *appliance*
- *simple character*
- *gadget*
- *piece of equipment*
- *robot*
- *vehicle*

Steps:

Once an object has been selected each student will:

1. **Sketch** the object on a letter size piece of paper.
2. Start a new **Blender** file and **save** it to the X:\ drive as "**FIRST_LAST_A1.blend**".
3. **Scan** your **sketch** **OR** find a high resolution **digital image** of the object from the internet.
4. **Insert** the image into the **background** of your **Blender** file.
5. **Scale** and **size** the background image accordingly.
6. Use the 3D modelling techniques outlined in class or in any of the tutorials to **construct a 3D model** of your object in **Blender**.
7. Use the various **material**, **shading**, and **textures** techniques available in **Blender** to make your model look **realistic**.

Deliverables, Due Dates and Marking Scheme:

Deliverable	Description	Due Date	Marks
Rough Sketch	One rough sketch of object to be modelled in Blender.	Thursday, October 8	/10
Completed Blender File	Students will be evaluated on successful completion of their Blender model file .	Thursday, October 15	/40
Color Printout of Object	Print your Blender model out in color.	Friday, October 16	10
Screening Day	We will view each Blender model on this day.	Friday, October 17	Total /60

Hints and Tips:

- Use the tutorials and reference materials available
- Choose an object that suits your modelling skill level well (don't choose something too simple or too hard).
- Your teacher will help you print out a final version on our colour laser printer.

Website Resources:

<http://www.jcarron.com/Site/Courses/PF-Class-TGJ4M.html>

<http://www.biorust.com/tutorials/browse/8/added/desc/1/>

<http://schools.spsd.sk.ca/mountroyal/Hoffman/Blender/BlenderMain.htm>

<http://popper.cs-i.brandeis.edu:8080/classes/aut09/cs65a/>

<http://www.cdschools.org/54223045235521/blank/browse.asp?A=383&BMDRN=2000&BCOB=0&C=55205>