

3-D Printed Name Plate

Design and 3D print a nameplate for friend, a family member, a teacher (how can they not give you bonus points?) or for yourself. Try to make it unique, but also meeting the required product measurements.

Save both your **.ipt** and **.stl** files in the G: 00 NAME PLATE Folder. Your files should be named in the following format specifically to help streamline printing,
 “**HOURL-YOUR FIRST AND LAST NAME-NAME PLATE- COLOR**”
(For example, 4-EVVA DOSSIN-NAME PLATE-BLUE)

When complete, render your 3D model in the computer and include it in your on-line portfolio. Once your nameplate is printed, be sure to take a picture of it and include alongside of your 3D rendered model in your portfolio.

Originality & Creativity: Is the design unique, interesting or personal? Does the student have a good reason to how/ why they designed what they did?	2	1	0
Product Measurement: Does the final product meet the required size restrictions: Minimum 1.5” x .75” x .5”, maximum 2.75” x 2” x .5”.	2	1	0
Design Efficiency/Functionality: Is the nameplate functional? Is the lettering legible? Are there no thin or sharp points? Are there no flaws in the design?	2	1	0
Critical Thinking: Did the student follow directions and put strong effort into solving own questions?	2	1	0
Time Management: Did the student use time well during each class period? Did they focus on getting the project done, help others if needed and never distract others?		1	0
File Storage: Did the student save the file as an .ipt and and .stl file correctly in the correct location?		1	0
Total:			/10 points

Comments:

Employ planning and time management skills and tools to enhance results and complete work tasks. (b)

Develop goals and objectives.(b1)

Prioritize tasks to be completed. (b2)

Manage file storage. (b23)

Demonstrate use of relational expressions such as equal to, not equal, greater than, less than, etc.(b3)

Describe design constraints, criteria, and trade-offs in regard to variety of conditions (e.g. technology, cost, safety, society, the environment, time, human resources, manufacturability). (a3)

Employ critical thinking and decision-making skills to exhibit qualifications to a potential employer. (c7)