



Skateboard Project

Project Objectives:

After completing this project, the student will be able to:

1. Identify the correct tap size for the hole provided.
2. Understand the relationship between the hole size and tapping process.
3. Recognize the various configuration and sizes of fasteners commercially available.
4. Assemble pre-fabricated parts.

If customization of parts is to occur, the following outcomes will exist, in addition to the above:

5. Understanding the design requirements for customization.
6. Experience the use of a solid modeling program in order to customize the design.
7. Learn the process of prototyping the model designed in the customization stage.

Parts List:

Contact the Alfred State School of Applied Technology Drafting/CAD program at 607-587-3182 to request the following parts:

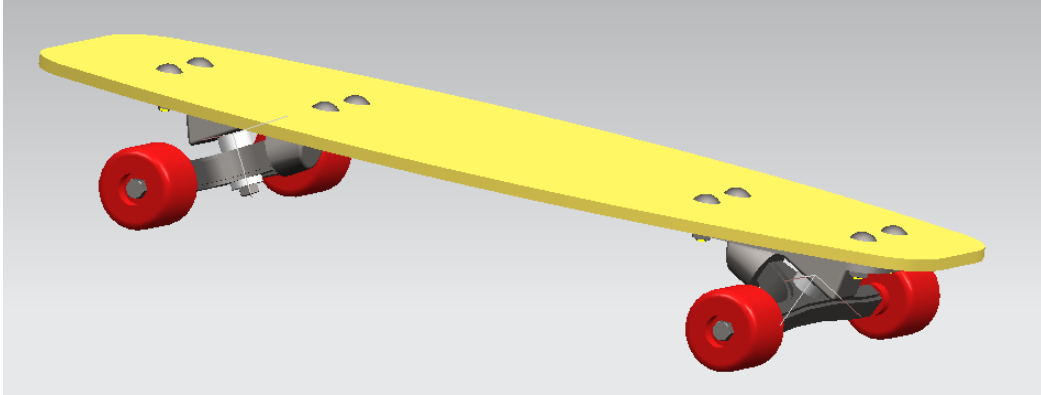
<u>Part Name</u>	<u>Qty.</u>
Truck Bracket	2
Skate Board Truck	2
Skateboard Wheel	4
Truck Bushing	4

Commercially Available Parts Required

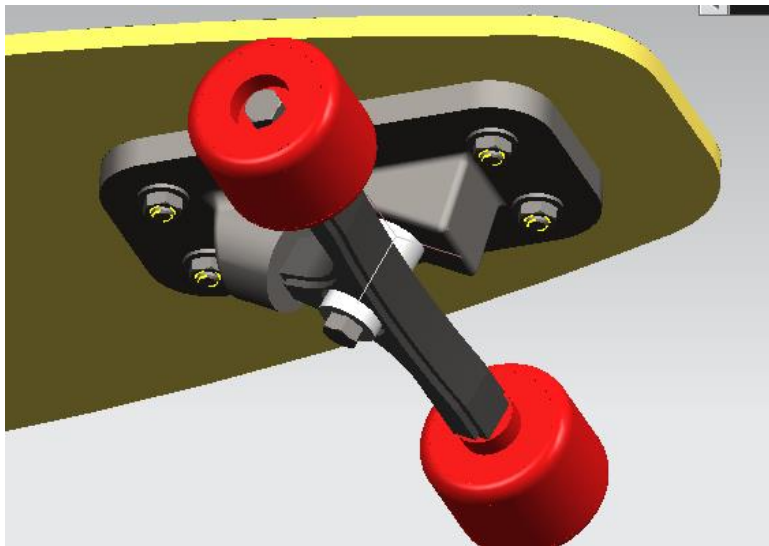
Nut and bolt for bracket mtg.	8 each	Dependent upon scale
Screws for truck/bracket mtg.	2	
Screws or bolt (axel)	4	

Screws, nuts and bolts appropriate to the scale you chose.

Note: The axels for the skateboard wheels are bolts threaded into the truck ends.



The finished skateboard is shown above



The image above shows the Truck/Bracket arrangement. The bracket must be tapped to the appropriate size and screws used to assemble the truck to the bracket.

Models of the trucks and brackets can be obtained by contacting the Alfred State School of Applied Technology Drafting/CAD . These parts are available in various sizes (scales) or could be modified to meet your specific requirements. If your class would like to model their own design, feel free to contact Karen Young at Alfred State at 607-587-3182 for details.