

Metal Work Balancing Project

Name: _____ Block: ____ Date: _____

This project is a self-designed project. You get to decide what shape/idea/object you would like to cut out. Through lessons on hand tools (hack saws, files, vices, shears, roll bender, rulers, compass and sandpaper) and power tools (horizontal band saw, lathe and welding equipment), you will complete your project. Your project also includes designing and building a stand for your object to stand on.

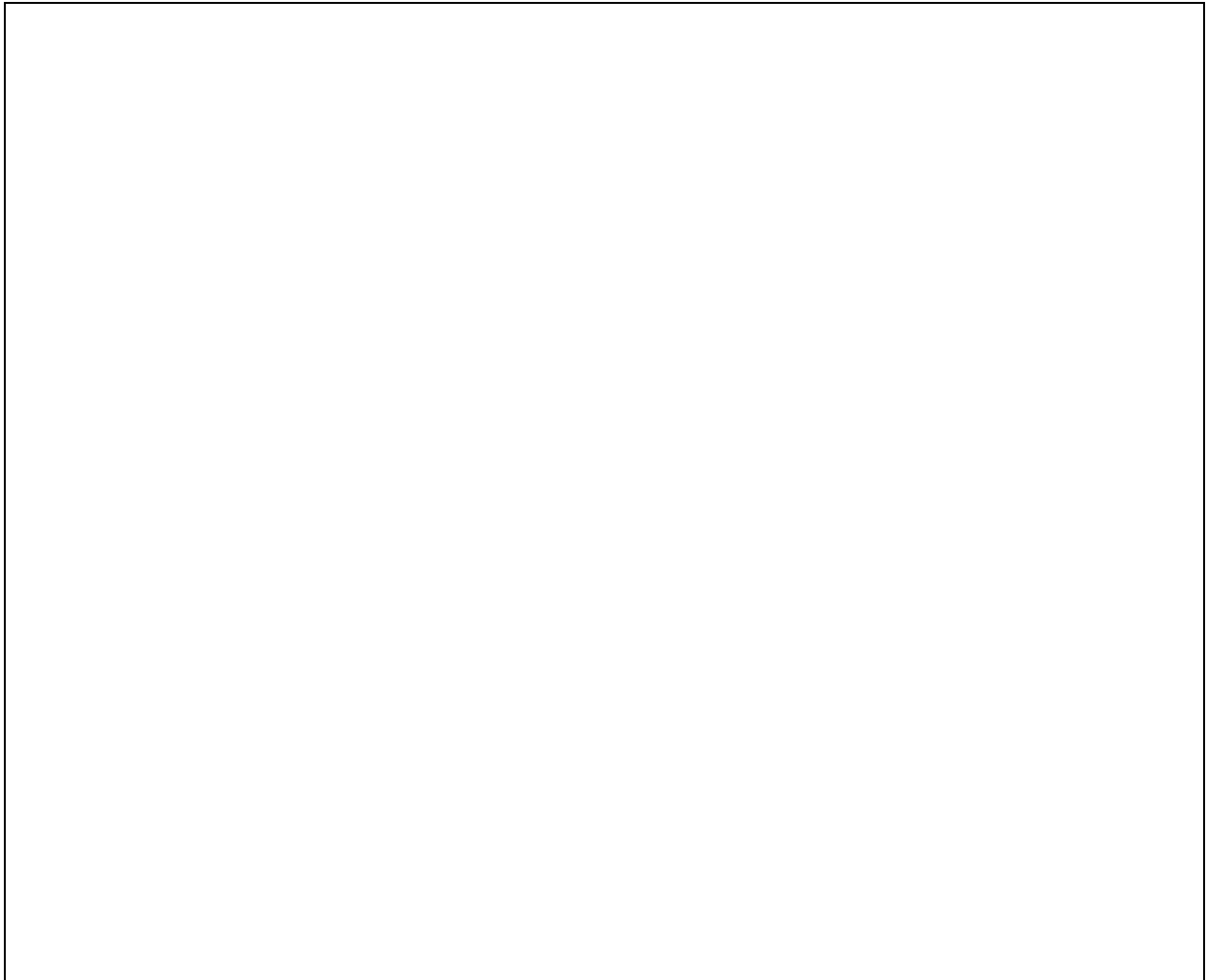
There are some basic materials that can be used but if you have an idea for your project that requires a different material let your teacher know.

Step one – What do you want to make? In the space provided sketch out a few ideas of what you are interested in. Examples can include sports, cars, bikes, hobbies, animals or your favorite toy/object. It can be anything. If you can draw it you can make it.

Drawings must include both a balancer and a stand for it to go on.

1	2
3	4

Step two – Make a choice and refine it, draw it big and put in detail to communicate your idea. If you are having trouble putting in details or getting the shape just right you can also go online at home and print out a picture of what you are interested in and bring that to class. You will then need a separate piece of paper to draw it life size or full scale 1:1 .



Step three – Show your idea to your teacher to get input and advice. Make changes as needed. Talk about and decide on materials that you may need, look at the materials in the metal rack and the scrap shelves. Check the supplementary handout for what materials I will provide.

Step four – Once you have a project and material picked get your idea drawn on your material. Plan how you are going to cut out your project, **DO NOT** just hack away at your metal. Talk to your teacher to get input for the best way to cut your material.

Step five – Have fun cutting and filing. Your teacher is here for support and will help you when you are stuck or just need a hand. Just remember – this is not a race and there is not a prize for first place.

