

Scrap Sculpture Challenge

Name: _____ Block: _____ Date: _____

Challenge:

Using material mostly from the short-ends/scrap bin students will create a metal sculpture of their choice that fits a footprint of 6"x6" (15cmx15cm) and a height no taller than 7" (18cm). Your Sculpture HAS to fit in your storage drawer.

Skills that SHOULD be utilized but not limited to... :

- Welding
- Lathe (round things)
- Drilling, cutting, and bending
- Sandblast, polishing, finish/design
- Fasteners (rivets, screws, bolts, etc)
- Wire work

What kind of sculptures can I do? Sculptures should be school appropriate but can be anything you like. They should be Three Dimensional (not flat looking!) and be able to stand on their own

Recommendations: Animals, cars/trucks, military vehicles, motorcycles, 3D logos, scenes that tell a story

What do I need before I start? I require that you do some design work and planning prior to any hands-on work with the exception of taking time to gather small scraps.

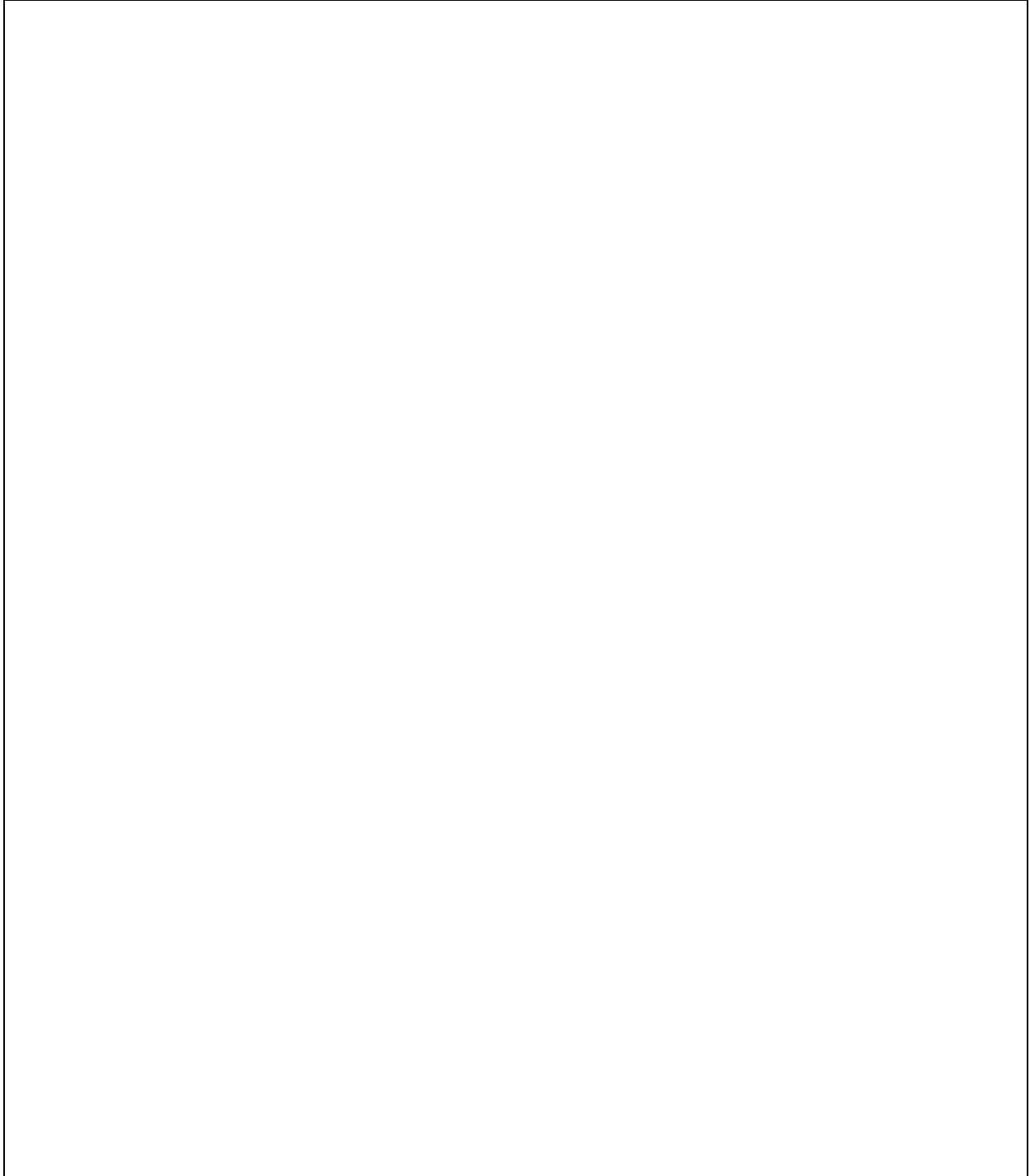
What metal can I use? Metal from the short ends/scrap bin and other material under 6 inches. Please check with the teacher first as some "scrap/short ends" are not actually scraps! You can cut pieces off of larger items in the bin but the goal of the project is to show it was made from FOUND OBJECTS. Your project should contain at least 10+ pieces of metal to make up your sculpture

How do I prove my learning and get a grade? Each day that you work on your project you should set a goal for yourself and aim to accomplish that task or more. You will record your work day in this booklet. You do not need a paragraph but 1-2 sentences or bullet points with your goal is enough for each day. If you feel you did well then you can give yourself a smiley face 😊. If you feel you wasted your class time then a sad face 😞 will represent your time spent in class. There are no half smiles or slight grins for this project. All or nothing! When I do the final "look at your piece" I will be analyzing sharp edges, desired fit and finish of parts

This project should take you 10+ hours of work to complete and make amazing!

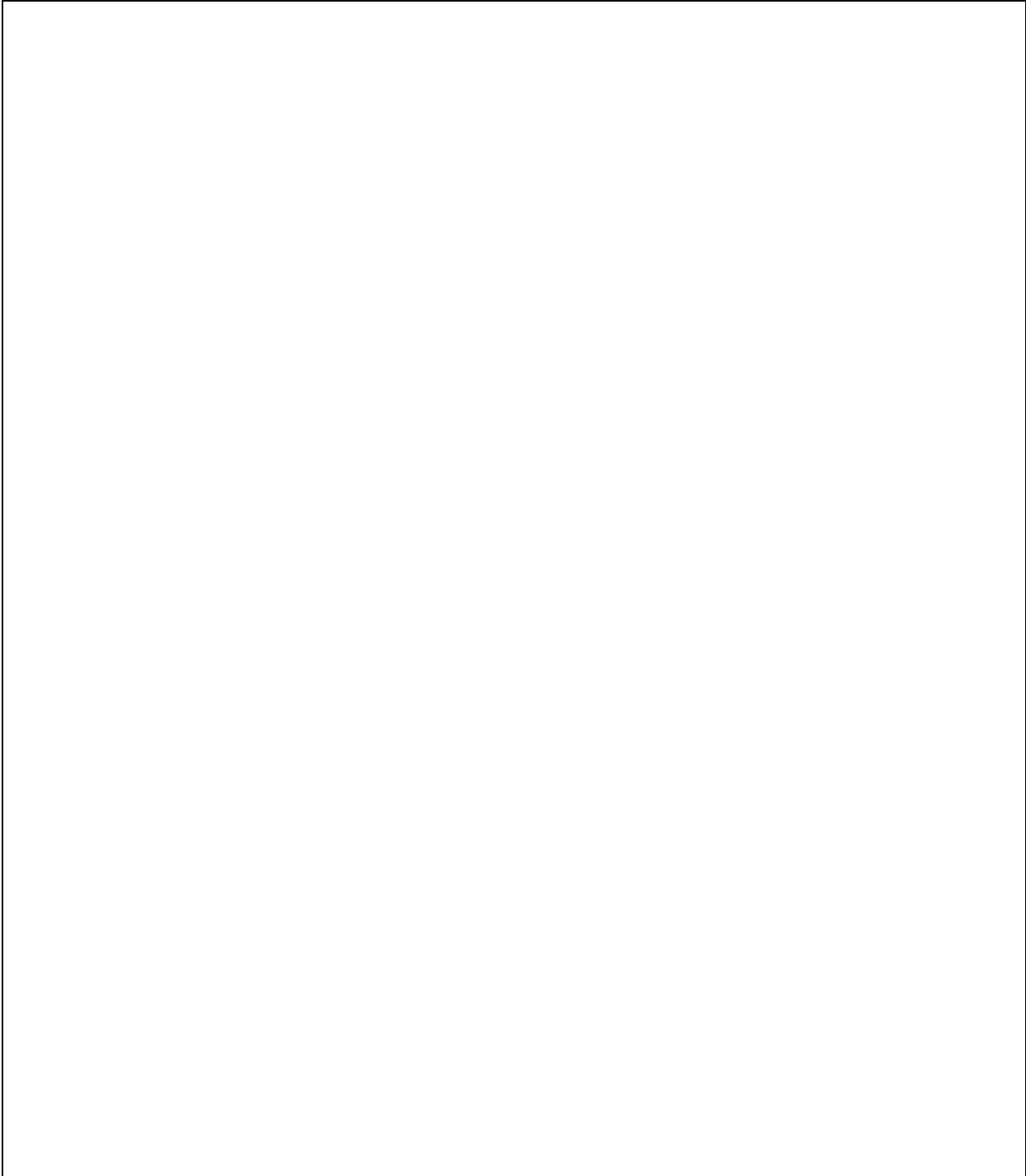
Go to the next page! →

Design Page: Use this page to come up with your initial design and inspiration. I recommend at least 4 small sketches here. Use the next page to begin planning your large version. This part of the design process allows for critical thinking and still lets you change your mind as you go. The goal is having a plan.



Next Page →

Full Size Drawings: Use this page to sketch out a full-size version. You are encouraged to draw more than one viewpoint since this will be 3D



Next Page →

Final Self-Evaluation:

How do you feel this project turned out?

What challenges did you face and how did you overcome those challenges? This can be difficulty with a specific skill or something that required two people to accomplish.

Final fit and finish?

Considerations: Rough vs smooth edges, able to stand by itself on any surface, etc.

What was your favorite part of this project to work on? (welding, lathe work, design, etc)

Do you think you would build something like this again?

Did you challenge yourself to new learning or did you coast and take the easy way out?