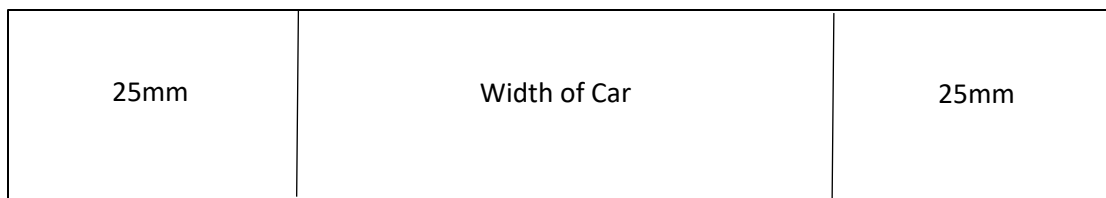


Making an Axel Holder for Your Gravity Car

1. Measure The width of your car where the axel will be going. You are going to do this twice so that you will have 2 axel holders.
2. Add 50mm to your width of car. Using side cutters, cut a piece of metal to this length. Write your NAME on it.
3. Mark 25mm from the ends. Your Piece should look like this:



4. Make 2 "X"s on the ends from the four corners. Centre punch the cross. This where you will be using the whitney punch to make holes for your axel.



5. Use the brake (sheet metal folder) to fold the 25mm ends down to a 90-degree angle.
 - a. If there is no metal brake, you may use a hammer and a square edge. Use a piece of wood and clamp it overhanging the edge of a table. Check using a square that it is 90 degrees before proceeding.
6. Next, measure and cut your axel from a 1/8 welding rod. Use a hack saw for this. Your axel should be the width of your car + 30mm (an extra 15mm for each side).



7. File your axel to ensure the ends are not sharp.
8. Insert your axel into the axel holder. Use hot glue to attach it to the bottom of your car.
9. Repeat for your second axel.