

SOLAR RECYCLING CAR

This project aims to produce a working model of a solar-powered car from recycled materials. During the task, safe machine tools and materials such as cans, PET bottles and bottle caps will be used.

Task: Students will sequentially perform all the steps to make a solar car, while being able to work with recycled materials. Make sure to use safety equipment and be careful when working with sharp edges.

Time to complete: approximately 120 minutes.

MATERIAL:

1. Drink can
2. PET bottle
3. Plywood (e.g. from a crate)
4. Bottle caps
5. Glue
6. Solar kit

HELPS:

1. Safe chip saw
2. Safe hand drill
3. Safe hand grinder

PRODUCTION PROCEDURE:

1. Production of the car body: Cut the can in half with a petal saw and sand the sharp edges with a grinder. This creates the body of the car.



2. Bonnet and spoiler: draw and cut out the outlines of the parts for the bonnet and front and rear spoiler on the moulding.

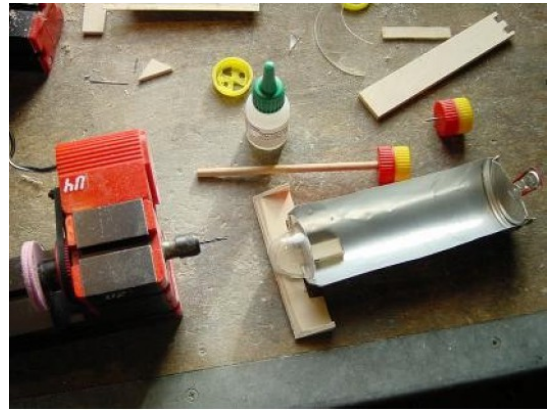


PRODUCTION PROCEDURE:

3. Windscreen and other parts: cut and drill out the parts for the windscreen and other parts from the PET bottle.



4. Wheels: make the wheels from bottle caps and fix them to the axle.



5. Assemble the model: assemble all parts and connect the solar drive.

