

How to Make a Prototype Vehicle for the Future with Mella Shaw



Difficulty Level: 2-3, depending on what learners come up with

Time to make: Any, depending on what learners come up with

This Circular Design Film and “How To” are a bit different from the others as this project doesn’t take you step by step through how to make a vehicle. Instead, we want you to use your imagination and come up with your own designs, using the ideas below to get you started.

Circular Design Principles

- Design for Disassembly
- Transforming Waste to Value
- Inspired by Nature
- Powered by Renewable Energy
- Multi-Functional
- Sharing Economy

Materials

- **Lego**
- **Anything from your recycling that inspires you e.g.:**
 - Egg Box
 - Tin Can
 - Soup Container
 - Kitchen Roll Tube

Tools

- No tools required

Some things to consider in your design:

1. How will your vehicle be fuelled? Could you use renewable energy like solar, wind, wave or kinetic power?
2. What function will your vehicle have? Could it do more than one thing to make the most of resources, e.g. be a hover-craft that turns into a submarine?
3. Who will travel in it? Will it be owned by just one person or could it be a vehicle that’s shared by lots of people?
4. Can it be disassembled? Can all the parts be taken off to be easily repaired, upgraded and properly recycled at the end of this vehicle’s life?
5. Might you be inspired by nature and the great ways animals move around, like the crab in the film, or the bluefin tuna that can accelerate faster than a Ferrari?