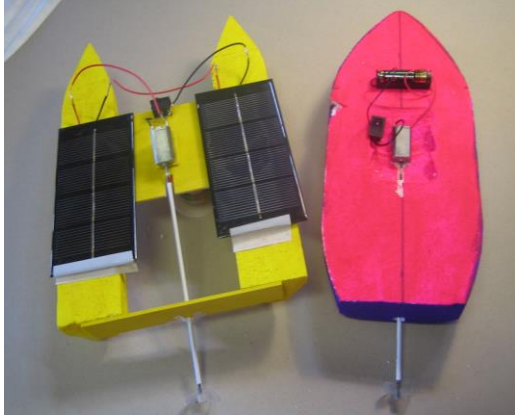




Model Boats – Solar or Battery

Each Kit includes



**1 Motor + 3D Mount +
double sided tape
1 Propeller & shaft kit
3 Pieces of wire
1 Switch
2 Alligator clips
1 Battery pack
1 Block of Polystyrene
330mmx150mmx 50mm**



Assembly Instructions

The model boats are lots of fun and the designs can be endless. I have seen some very interesting designs. Ones made from 4 large drink bottles to highly engineered speed boats.

To construct the boat.

The foam can be cut and shaped in many ways but the most important thing is to keep it balanced. It is easy to draw on the foam with a felt pen so you can design the boat before you cut. If the boat is too narrow it may roll when you put the motor and solar panel or battery on it. You can also cut the foam to make a mono hull or a twin hull (catamaran). Spend some time thinking about the design.

The foam can be cut with a sharp knife or a hot knife. You can also shape the foam by using sandpaper. Getting a smooth finish will assist your boat to move faster through the water. You also need to think about where the propeller will go and at what angle it needs to be. A hole can be drilled for the shaft or you can cut a slot in the back of the boat and tape the shaft in place.

Once you have finished your design and tested that it floats think about adding some colour or decorations.

To install the motor.

On the end of the propeller shaft is a small piece of clear plastic tube. This will fit onto the motor shaft and provide a flexible joint. Position the shaft and motor in your boat and then complete the wiring as per the picture to the right. The two alligator clips can then be connected to any power source. If the propeller spins the wrong way just swap the connections over and it will reverse.

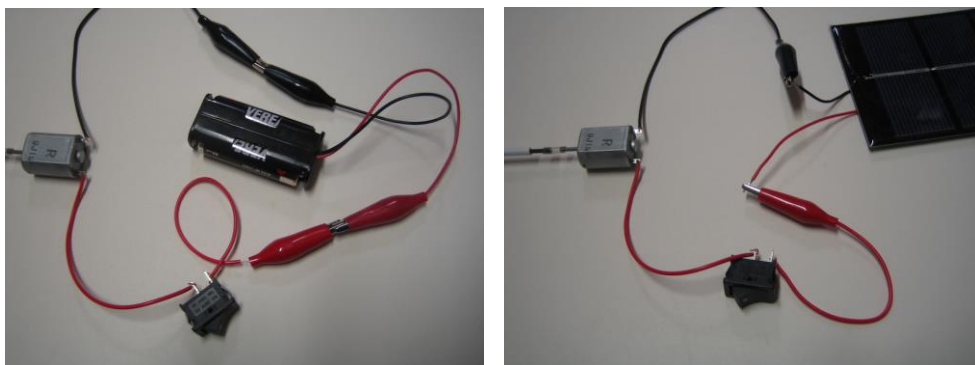
Balance is most important in this project, not just so it doesn't turn over and wet the motor but also, so it goes in a straight line. It is best to do some testing before installing the motor!



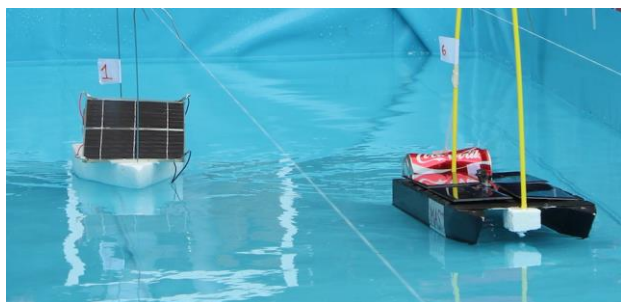
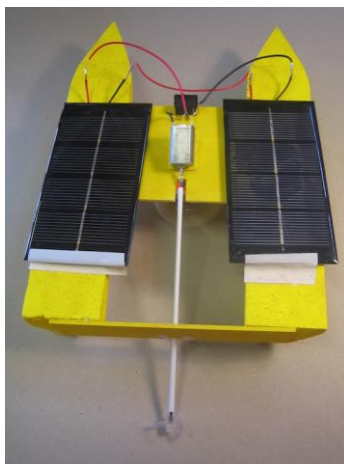
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Here is the motor connected to either the solar panel or battery pack.



It is easy to test in the bath, pond or local pool. If you have a couple of wire guides which sit up above the boat you can then have some races using a fishing line stretched across the pond to guide the boats.



Have fun and if I can help in any way please contact me.

Michael

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