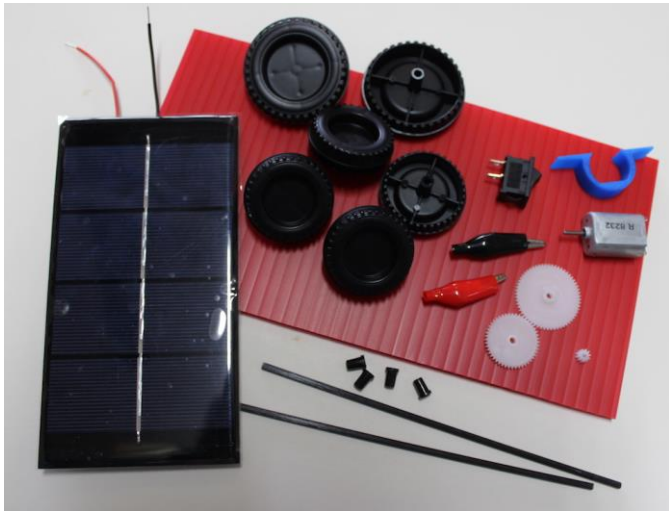




# Advanced Kit – SISP Solar Challenge Model Solar Cars

## Each Kit includes



- 1 Solar Panel – 2v, 700mA
- 6 Wheels, 2 x 50mm, 4x40mm
- 2 Axels 167mm long
- 4 Axel Collars (small black tube)
- 1 Motor - F13S + Plastic Mount
- 2 Large Spur Gear 60T & 48T
- 1 Small Pinion Gear 10T
- 2 Alligator Clips
- 1 Chassis (Coloured Corflute 130mm x 240mm)
- 1 Black rocker switch on/off

## Class sets

Class of 27 students and 3 students per team = 9 kits required

With the kits you will need 2 100m rolls of wire, red & black. Also 1 roll of 12mm double sided tape and two block sets.

Kits	\$202.50
DST 12mm	\$ 9.50
2 wire rolls	\$ 18.31
2 block sets	\$ 4.14

Total \$234.45

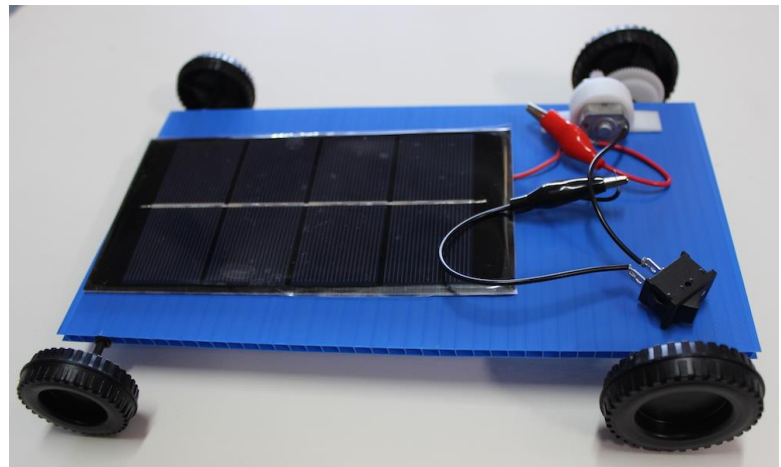
Extra kits @ \$22.50 each

Apart from the kits and materials above you may require the following tools.

Pliers 115mm \$3.95 each	Wire crimper, Cutter & Stripper	\$8.90 each
Wire Stripper \$16.00 each	Multimeter	\$8.90 each

The Primary challenge is the 20m Straight track

Student will need to decide on which size wheels run best, which gear ratio to use. Position of the panel. Guides for the car to run straight on the track. Weight of the car. Friction and alignment of the components. Front wheel vs rear wheel drive. Plus any innovation ideas which still keep the car inside the rules. Teachers may also like to add a creative side and look for the best looking car.



All prices listed here do not include GST