

On this page you will find a list of the materials you will need to enable you to build the projects that are described in this book. We work on the guiding principle that one doesn't want to spend money unnecessarily, so you may find the list limiting. Working with a restricted range of materials offers advantages other than financial. Although designing is a matter of making appropriate choices, having too much to choose from isn't always helpful.

Consider reducing the size of stock materials. For example, the softwood comes in lengths of 59cm, so halve most of it. Children will tend to use materials as they find them. If the lengths are shorter, then less will be used. Save some full lengths in the cupboard for those few cases when the greater lengths are necessary. You won't need us to tell you that children are likely to cut a small piece of card from the centre of a full sheet. So, again, cut the majority of the sheets up into smaller units.

The prices listed are based on 2001 catalogue prices. In most cases they are rounded up so they should be a reliable guide for a few years. If you find that a price in a catalogue differs greatly from what's shown here then look at another catalogue! *At the time of writing you can pay anything between £1 and £2 for an identical junior hacksaw.*

SOFTWOOD	10mm x 10mm	100 pieces 59cm long	£18.00 per pack
DOWEL	5mm diameter	20 pieces 60cm long	£3.00
PAPER STICKS	5mm dia.	500 pieces 15cm long	£15.00 ( <i>use in place of dowel</i> )
LOLLY STICKS		1000	£5.00
MATCHSTICKS		2000	£2.00
SPLINTS /SPILLS	180 x 5 x 1.5mm	1000	£5.00
THIN CANE	<i>Use kebab skewers from Supermarket or, better still, dismantle a cane window blind. (IKEA blind will cost about £3.50 and provide over 200 metres of cane.)</i>		
CARD DISCS	25mm dia.	100	£2.50
	38mm dia.	100	£3.00
	51mm dia.	100	£3.00
	63mm dia.	100	£4.50
MDF DISCS	34mm dia.	100	£6.00
	54mm dia.	100	£8.00
RUBBER WASHERS		150	£5.00
PVA WOOD GLUE		500ml	£2.50
		2.5l	£8.00
PVC TUBING	8mm dia.	5 metres	£1.50
ARTSTRAWS (Jumbo)		900	£12.00 per box
PLASTIC STRAWS (Jumbo)		900	£7.50 per pack
CARD-COPY		250 sheets	£9.00 ( <i>office supplies</i> )
CARD-STIFF	450 x 640	100 sheets	£15 - £20 ( <i>from paper merchants</i> )
	<i>You should never need to buy card like this. Use reclaimed material or source off-cuts from local industry.</i>		

MIRRORS (for periscopes and kaleidoscopes). Packs of 10 acrylic mirrors, 100mm x 150mm cost approx. £7.00. *This means that you can make a periscope for about 25p and a kaleidoscope for 70p*

ELECTRICITY - If you wish to add electrical circuits to models :-

MEAGRE MOTORS - WITH PULLEY FITTED - 50p

BULBS 1.5v packs of 50 - £4.00

MOTOR MOUNTS (self adhesive) - 20p

PLASTIC COVERED WIRE 100m - £4.00

HYDRAULICS :-

PVC TUBING 6mm (to fit syringes) 30m coil - £5 - £6

SYRINGES - various sizes - from £1.50 (2ml) to £6.00 (50ml) per pack of ten

You will also need the following. These items are more competitively priced in the catalogues of office suppliers although they can also be sourced from educational suppliers.

Masking tape

String

Brass paper fasteners

Drawing pins

Thread

Paperclips

Rubber bands