Papers and Boards

You need to know the performance characteristics of papers and boards, this includes:

- the ability to be scored
- cutting
- folding
- surface qualities for printing
- impact resistance
- recyclability and/or biodegradability

Drawing Papers:

Layout Paper (thin white semi-transparent paper, 50gsm):

Advantages	Disadvantages
 Lightweight Can be used with most pens/markers Low cost Takes colour well 	WeakWill tear easilyHard to store

Uses: For initial ideas/designs of products/architectural drawings

Tracing Paper (transparent paper 60gsm):

Advantages	Disadvantages
 Easy to use Allows copying of design onto another page Strong Hard (easy to remove mistakes) Thin 	 Flimsy More expensive than normal paper

Uses: Working drawings, copying, design

Copier paper (multiuse 80gsm):

Advantages	Disadvantages
• Cheap	 Prone to jamming printers
 Range of colours 	 Low quality paper
 Opaque 	
 Good quality surface (many 	
different drawing	
techniques can be used on	
this paper)	

Uses: Watercolours, printing, Paints, Inks, photocopying

Commercial printing papers:

Bond paper (white paper 75gsm):

Advantages	Disadvantages
 High quality 	 More expensive than
 Durable 	regular paper
 Multiple uses 	

Uses: Letterheads, Graphic work, Electronic printers

Coated paper (paper coated in compound/polymer to gain certain properties 80 gsm):

Advantages	Disadvantages
 Properties van be altered through finish 	HeavyHard to store
Scuff resistantCan be waterproof	Discolours after time

Uses: Photographs, Magazines

Producing mechanical pulp:

1. Coniferous logs are saturated in water

- 2. Timber is debarked
- 3. Cut into chips
- 4. Logs are ground down into pulp
- 5. The pulp is screened to 1-2mm
- 6. Larger pieces are recirculated and grounded further
- 7. Pulp is bleached

Boards:

Mounting board:

Advantages	Disadvantages
 Lightweight 	 Difficult to bend
Strong	
 Easy to cut 	

Uses: Stiffens/preserves artwork, prints, photographs, watercolour

Corrugated board:

Advantages	Disadvantages
Strong	 Can become deformed
 Impact resistant 	 Not waterproof
 Recyclable 	
• Cheap	

Uses: Packaging, Box making, For fragile goods

Foam board:

Advantages	Disadvantages
 Impact resistant 	 Layers can split
• Strong	 Can become deformed
 Multiuse 	
Easy to cut	

Uses: Model making, mounting of prints, Backing photo frames

Folding box board:

Advantages	Disadvantages
Low densityGood printing surfaceHigh stiffnessEasy to work	 Can't withstand medium- heavy loads Not aesthetically pleasing

Uses: Frozen/chilled foods, beauty products

Foil-lined board:

Advantages	Disadvantages
 Keeps food flavour 	• Weak
 Keeps food warm 	 Expensive
 Easy to work 	
 Good barrier against 	
moisture	

Uses: Food packaging, takeaway food, keeping food warm

Social and ecological issues:

- Great number of trees cut down for 'virgin' paper
- Paper can be recycled 7 times before it needs to be mixed with new fibres
- Deforestation can affect ecosystems and biodiversity
- Companies try to reduce their impact by replanting trees