# Knowledge Organiser AQA Design & Technology 8552

#### 1. Paper

	T. Laber		
	Туре	Description and uses	
	Layout paper	<ul><li>lightweight, thin white paper</li><li>used for initial ideas</li><li>takes colour media well</li><li>low cost</li></ul>	
	Tracing paper	<ul><li>thin, translucent paper</li><li>making copies of drawings</li><li>high cost</li></ul>	
	Cartridge paper	<ul> <li>good quality white paper</li> <li>available in different weights</li> <li>general purpose work</li> <li>can be used to make simple models</li> <li>medium cost</li> </ul>	
	Bleedproof paper	<ul> <li>smooth, hard paper</li> <li>used with water-based and spirit-base felt-tip pens</li> <li>medium cost</li> </ul>	
	Grid paper	• printed square and isometric grids in	

## 2. Selection of materials or components

When selecting materials and components considering the factors listed below:

different sizes

drawings low cost

a guide for quick sketches and working

- Functionality: application of use, ease of working
- Aesthetics: surface finish, texture and colour.
- Environmental factors: recyclable or reused materials,
- product mileage.Availability: ease of sourcing and purchase.
- Cost: bulk buying.
- Social factors: social responsibility.
- Cultural factors: sensitive to cultural influences.
   Sthical factors: purchased from othical sources such
- Ethical factors: purchased from ethical sources such as FSC.

What is the FSC?  $\frac{\text{http://www.fsc-uk.org/en-uk/about-fsc/what-is-fsc/fsc-principles}}{\text{fsc/what-is-fsc/fsc-principles}}$ 

#### 3. Boards

stands	91 Beal at			
card  used for packaging protection and point of sale stands  available in different thicknesses  Duplex board  large foam-based board  different finishes available including metallic and hologrammatic  used for food packaging, e.g. take-away pizza boxes  Foil lined board  quality cardboard with a aluminium foil lining ideal for ready made meals or take away meal cartons  The foil retains the heat and helps keep the food warm  Foam core board  very light, very stiff and very flat.  It has a white, rigid polystyrene foam centre, with smooth white paper laminated onto both faces.  It is easy to cut with a knife, a mount cutter or on a wall cutter  great for modelling  Ink jet card  Has been treated so that it will give a high qualit finish with inkjet ink available in matt and gloss  Solid white board  tuged for hard backed books and more expensive items	Туре	Description and uses		
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finish with inkjet ink		<ul> <li>It has a white, rigid polystyrene foam centre, with smooth white paper laminated onto both faces.</li> <li>It is easy to cut with a knife, a mount cutter or on a wall cutter</li> </ul>		
bleached wood pulp.  • used for hard backed books and more expensive items	Ink jet card	finish with inkjet ink		
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#### 5. Properties of paper and boards.

Туре	Weight or thickness	Uses	Relative cost (10= high)
Newsprint	50gsm	Newspapers	1
Layout Paper	60gsm	Sketches and tracing	3
Tracing Paper	70 gsm	Tracing	4
Sugar Paper	90gsm	Cheap mounting work	2
Inkjet/Photo paper	150- 230gsm	Photos/Pres entations	9
Board (Card)	230-750 microns	Model- making	5
Mount Board	230-1000 microns	Model- making, High picture quality mounting	9
Corrugated	3000-5000	Packaging	5

### 4. Paper and Boards- Stock sizes and weights

Paper and board is available in sizes from A0 (biggest) to A7 (smallest).

The most common size is A4.

Each size is half the one before,

eg A4 is half the size of A3.
They are also sold by weight:
GSM – grams per square

metre.

Card thickness or calliper is traditionally measured in Microns. 1000

Microns = 1mm, so the higher the value, the thicker the card or paper.

7: KEY WORD FOCUS

protection

microns

Card

You should be able to explain the meaning of each of these words by the end of this rotation.

GSIM	Grams per Square Metre
Microns	Thickness of paper or card.
	1000microns = 1mm thickness