......Form......Mark.....

TECHNO WORLD 'YOUR' Work in Product Design



## MATERIALS AND COMPONENTS Revision Sheet 1 – Paper and Board

Name and Description		Us	es and properties	How <b>paper</b> is made 1. Tiny wood chips are cooked in water to		
LAYOUT AND TRACING PAPER Both translucent (you can see through them)	**	•	Used for fracing and copying. Its used for this because you can see through it.	2. Starch produc finish. 3. Poure	a musny , dye an ce the re d over fir	ny wood puip. and chalk are added to required texture and surface fine mesh drains away the wood fibres nm in length) link together buch. bassed through rollers to the excess water.
CARTRIDGE PAPER A tough and lightly textured paper.		•	Used for general drawing Used for this because it takes pencils and colours well.	<ol> <li>As the (less the when the 5. This wasquees)</li> </ol>	water di han 1mm they touc reb is pas ze out th	
CARDBOARD Can be laminated together to make		•	Used for general packaging and modelling uses.	Paper is commonly available in the 'A' sizes e.g. A4, A3 etc.		
Often made of recycled material.		•	It's used for this because it is cheap and widely available	Board is h paper and pulp. e.g. Ca	eavier, t is made ardboard	hicker and more rigid than from several layers of
SOLID WHITE BOARD Made from bleached wood pulp	ART HISTORY Cheminity		Used for book covers and more expensive packaging.	Carton board Mounting board Corrugated board		
		•	because it is strong and good for printing on.	<ul> <li>Laminating – sticking several sheets of card together to make very thick card.</li> <li>Composite materials – laminating (sticking together) a wide range of different materials such as aluminium foil, plaster of paris, rigid plastic foams etc. creates boards with very different properties. You are trying to get the best properties from each material.</li> </ul>		
DUPLEX BOARD Made from pure wood pulp with a bleached liner on one side.		•	Used in food packaging Used for this because it can be easily printed on and can be lined to protect it from			
		-	drinks and foods.	Eg. Product		A foil lined lid to a
BOARD Made by laminating aluminium to any of the boards above.		•	liners Used for this to help insulate the container and to	Compositio	n	takeaway carton Board laminated to foil laminated to a thin plastic layer
			help keep moisture in.	Properties		Board – adds rigidity Foil – preserves food and
CORRUGATED BOARD This is made up of a liner board (flat		•	Used for large cartons which transport smaller items.			keeps in heat Plastic lining – keeps food dry
sheet) and the fluted sheet sandwiched in the centre.		•	Used for this because it offers strength without undue weight.			

## Questions

- 1. Explain the how the properties of solid white board make it suitable for book covers.
- 2. Explain why Duplex board is especially used for printed goods.

3. Name a material that is suitable for large boxes – explain why you chose it.

4. In your own words explain what lamination is.

- 5. Name a paper based product that is laminated (not on the example sheet)
- 6. Explain why composite materials have been developed and give one example (not on example sheet)