

Key Diagrams

 wood: hard, stiff, strong, opaque, can be carved into any shape.	 glass: waterproof, transparent, hard, smooth.
 plastic: waterproof, strong, can be made to be flexible or stiff, smooth or rough.	 metal: strong, hard, easy to wash.
 paper: lightweight, flexible.	 cardboard: strong, light, stiff.
 fabric: soft, flexible, hard-wearing, can be stretchy, warm, absorbent.	 rubber: hard-wearing, elastic, flexible, strong.



Charles Macintosh

Key Information

Charles Macintosh	A Scottish inventor. He painted liquid rubber onto cloth. The Macintosh raincoat was invented in 1823.
Materials that are waterproof	Glass, plastic, metal and rubber.
Materials that are not waterproof	Paper, cardboard and fabric.
Materials that are transparent	Glass and some plastics.
Materials that are opaque	Wood, cardboard and metal
Materials that are translucent	Some plastic and frosted glass
Materials that are absorbent	Fabric, paper, cardboard and wood.
Materials that are absorbent	Plastic, metal, rubber and glass

Vocabulary

Materials	What objects are made from
Properties	What the material is like and how it behaves
Suitability	Having the properties which are right for a specific purpose
Waterproof	Keeps the water out. Keeps things dry
Not waterproof	Lets the water in, doesn't keep things dry
Flexible	Will bend easily
Stiff	Will not bend
Rough	Feels bumpy and textured
Absorbent	Soaks up water
Not absorbent	Does not soak up water
Dull	Doesn't reflect light, doesn't look bright or shiny
Shiny	Reflects light easily
Opaque	Not see through
Transparent	See through
Translucent	Allows light through but no detail