

Year 2 - Uses of Everyday Materials

Key Scientist Charles Macintosh was a Scottish inventor and chemist, who invented waterproof fab-



This is his Google doodle.

rics in 1818. The Mackintosh raincoat was introduced in 1824. He invented the first waterproof fabric by painting a dissolved rubber solution onto cloth.

Uses The first structural materials used in powered aircraft were wood covered with fabric. Wood was the material of choice in early aircraft because it is hard and strong. Also, wood was easily carved into shape for the main body and wings.

Key Knowledge

Material Properties

wood hard, stiff, strong, opaque, and 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

Key Vocabulary

Word Definition

materials what objects are made from

suitable having the properties which are right

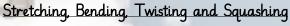
for a specific purpose

properties what a material is like and how it

behaves (soft, stretchy, waterproof)

waterproof when a material does not let water

pass through it

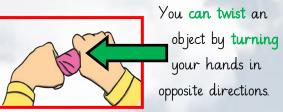


You can stretch an object by pulling your hands slowly and gently apart.

You can bend an object by grabbing both

ends of the object and bringing the ends inwards

together.



You can squash an object by pushing both hands together.

