# **Materials - Science**











plastic





# **Key scientist**

### Charles Macintosh

invented the first waterproof fabric by painting a dissolved rubber solution onto cloth.



## Charles Macintosh

Charles Macintosh was a Scottish inventor and chemist who invented waterproof fabrics in 1818. The Mackintosh raincoat was introduced in 1824.

# Key vocabulary

Key Vocabulary		
object	A thing that can be used. For example a door, chair, car, table are all objects.	
material	Materials are what an object is made from.	
suitability		Suitability means having the properties which are right for a specific purpose.
properties		This is what a material is like and how it behaves (soft, stretchy, waterproof).
hard	No	ot easily broken or bent.
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hard	Not easily broken or bent.
soft	If something is <b>soft</b> , it is easy to cut, fold or change the shape of.
stretchy	Can be pulled to make it longer or wider without breaking.
shiny	Reflects light easily.
dull	Doesn't reflect light. Doesn't look bright or shiny.
rough	If something is rough, it feels and looks uneven or bumpy.

smooth	Smooth objects have no lumps or bumps.
bendy	Bendy things can be bent easily into a curved or folded shape.
not bendy	If something is not bendy, it can't be bent easily into a curved or folded shape.
waterproof	If something is waterproof, it keeps water out. It keeps things dry.
not waterproof	Not waterproof materials let water in.
absorbent	If something is absorbent, it soaks liquid up.
not absorbent	If something is not absorbent, it does not soak up liquid.
transparent	Transparent objects can be seen through.
opaque	Opaque objects can't be seen through.