

Substantive Knowledge

Materials can be **changed** by **physical force** (twisting, bending, squashing and stretching).

The properties of a material determine whether they are suitable for a purpose.

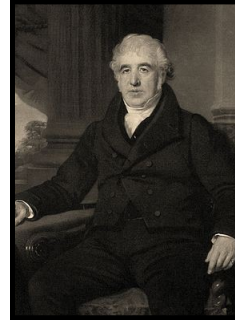
Disciplinary Knowledge

Performing simple tests.



Significant Scientists

Charles Mackintosh (1766-1843)



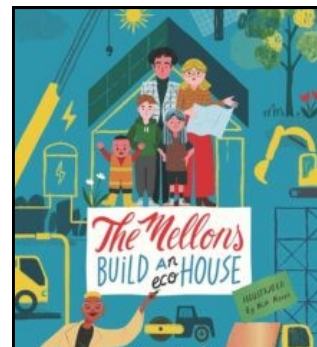
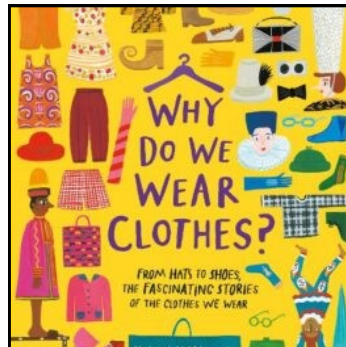
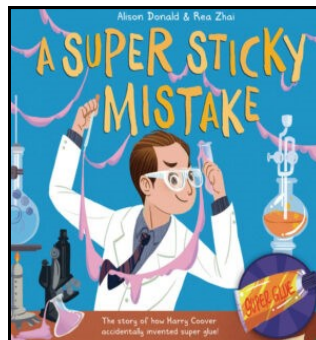
Charles Macintosh was a Scottish chemist, best known for his invention in 1823 of a method for making waterproof garments. The mackintosh garment was named for him.

Beth Esponette

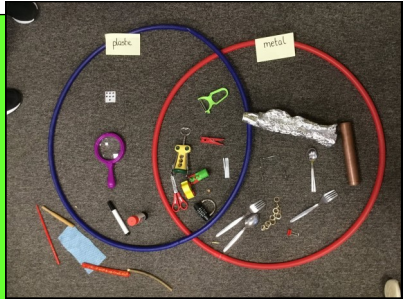


Beth Esponette has a Bachelor of Science in Fibre Science and Apparel Design and is a dynamic scientist and designer who stands at the forefront of innovation in the fashion industry. She is on a mission to revolutionize the way we perceive and produce clothing.

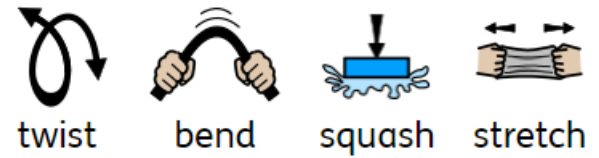
Interesting Books



Prior Knowledge



Properties can be changed by physical force



Materials are suitable for a purpose



Key Vocabulary

changed	Different from before.
physical force	When objects touch making them move in some way.
absorb	To soak up or take in liquid.
crumbly	Easily broken into a lot of little pieces.
property	How a material can be described.
drag	Pull something along with difficulty.
suitable	Right for the purpose.
strongest	Objects or materials that are not easily broken.
flexible	Bends easily without breaking.