



DT

Year 1 Knowledge Organiser - Under My Umbrella

Key Questions



DT

Vocabulary

Key Vocabulary	Definition
Waterproof	An object is water-resistant, so is not effected by water. Water does not go through it, it runs off it.
Rigid	Unable to bend or be forced out of shape.
Sketch	A rough or unfinished drawing.
Design	A plan or drawing made to show the look and function of something.
Purpose	The reason something is done or created.
Research	An investigation/ test to find information and facts.
Pattern	A repeated pattern design.
Evaluate	Form an idea about something. Look at things that were successful and unsuccessful.

What materials are used to make umbrellas?

What makes one umbrella better than another?

Which characteristics of materials are effective to make an umbrella?

Key Engineer

Samuel Fox
1815- 1887



Key Facts

Born 17th June 1815 in Bradwell. He was one of nine children and his father was William Fox who made weaving shuttles to make cottage looms.

He created a superior umbrella, but men's umbrellas were heavier than women's umbrellas. Men's umbrellas weighed four pounds, the same as a whole ostrich egg, and women's umbrellas weighed one pound, the same as a guinea pig!

Before the age of thirty he owned a wire drawing factory in an old mill in Stocksbridge. He experimented with and ultimately invented Fox's Paragon Frames. 'Fox frames' are still sold today. Before they used the steel frame, they used whale bones!

Samuel Fox continued improving and developing his ribs over the next few years when his son William Henry Fox joined the company around 1913 and around this time adopted the trademark 'Paragon'.

Work Examples



SAMUEL FOX & COMPANY LIMITED,
STOCKSBRIDGE WORKS, NEAR SHEFFIELD,
MANUFACTURERS OF

STEEL
OF EVERY
DESCRIPTION.
Steel Wire
FOR
EVERY PURPOSE.



STEEL RAILS
INGOTS,
BLOOMS & BILLETS,
SOLID WELDERS
STEEL TYRES,
Railway and other
SPRINGS,
FORGINGS & AXLES
AND
GENERAL PLANT.

PATENTERS AND MANUFACTURERS OF THE
PARAGON STABILIS, LOCKRIE, OPTIMUS AND SOLID FRAMES FOR UMBRELLAS.
RAILWAY AND TELEGRAPHIC COMMUNICATION IS OPEN DIRECT WITH THE WORKS.
LONDON AGENT FOR STEEL AND WIRE, D. L. SCHONBERG, 4, QUEEN VICTORIA STREET, E.C.

Timeline

Edmund Cartwright
1743— 1823

Isambard Kingdom Brunel
1806-1859

Samuel Fox
1815-1887

Gustave Eiffel
1832- 1923

Joseph Strauss
1870—1938

Richard Reed
1973-present