

Design and Technology Knowledge Organiser

Year Three
Book Shop

Design Brief

The book industry is huge in the U.K. and around the world. Despite the fact that technologies in this industry have continued to improve and evolve such as through the use of Kindles, books remain hugely important. They are full of knowledge, portable and can be recycled. Recycling takes on a key role for your task. Your task is to create your own book business, selling and recycling books and creating artwork, book reviews and bookmarks to sell.

Recycling Paper

1. Paper is taken from the bin and deposited in a large recycling container along with paper from other recycling bins.
2. The paper is taken to a recycling plant where it is separated into types and grades.
3. The separated paper is then washed with soapy water to remove inks, plastic film, staples and glue. The paper is put into a large holder where it is mixed with water to create 'slurry'.
4. By adding different materials to the slurry, different paper products can be created, such as cardboard, newsprints or office paper.
5. The slurry is spread using large rollers into large thin sheets.
6. The paper is left to dry, and then it is rolled up ready to be cut and sent back to the shops.



How Paper and Similar Materials are Made

Paper is made from new fibres or recycled material. Wood pulp is obtained by cutting down trees and breaking down the wood.

The bark and chippings are then removed and ground down or cooked with chemicals to extract the cellulose fibres.

Softwood trees are traditionally used to create wood pulp as the fibres are longer, making stronger paper; some manufacturers plant new trees for each one they chop down.

Different Ways to Read

1. E-books
2. E-magazines
3. Audio books
4. Graphic novels (comic books)
5. Large print
6. Kindles and tablets
7. Newspapers

