



# Changing Materials

Written by Adrian Bell

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For Review Only

# Changing Cotton

Cotton grows on cotton plants as balls of soft, thin **fibres**.

Each cotton fibre is soft and **weak**.

We can change the shape of cotton fibres.

This changes weak cotton fibres into new and strong **materials** that we can use.

Let's find out how soft cotton fibres become strong **materials**.

Cotton plants grow to about 1 metre in height.

# Spinning Cotton into Yarn

First, we pull the cotton fibres off the plant.

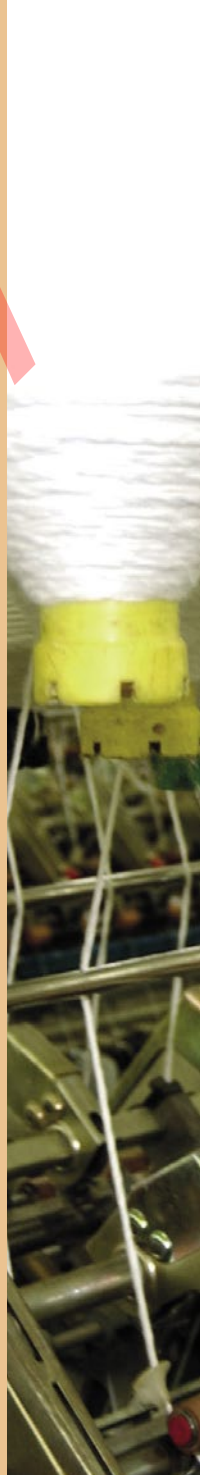
Each fibre is long and straight.

Then, we stretch and twist the cotton fibres.

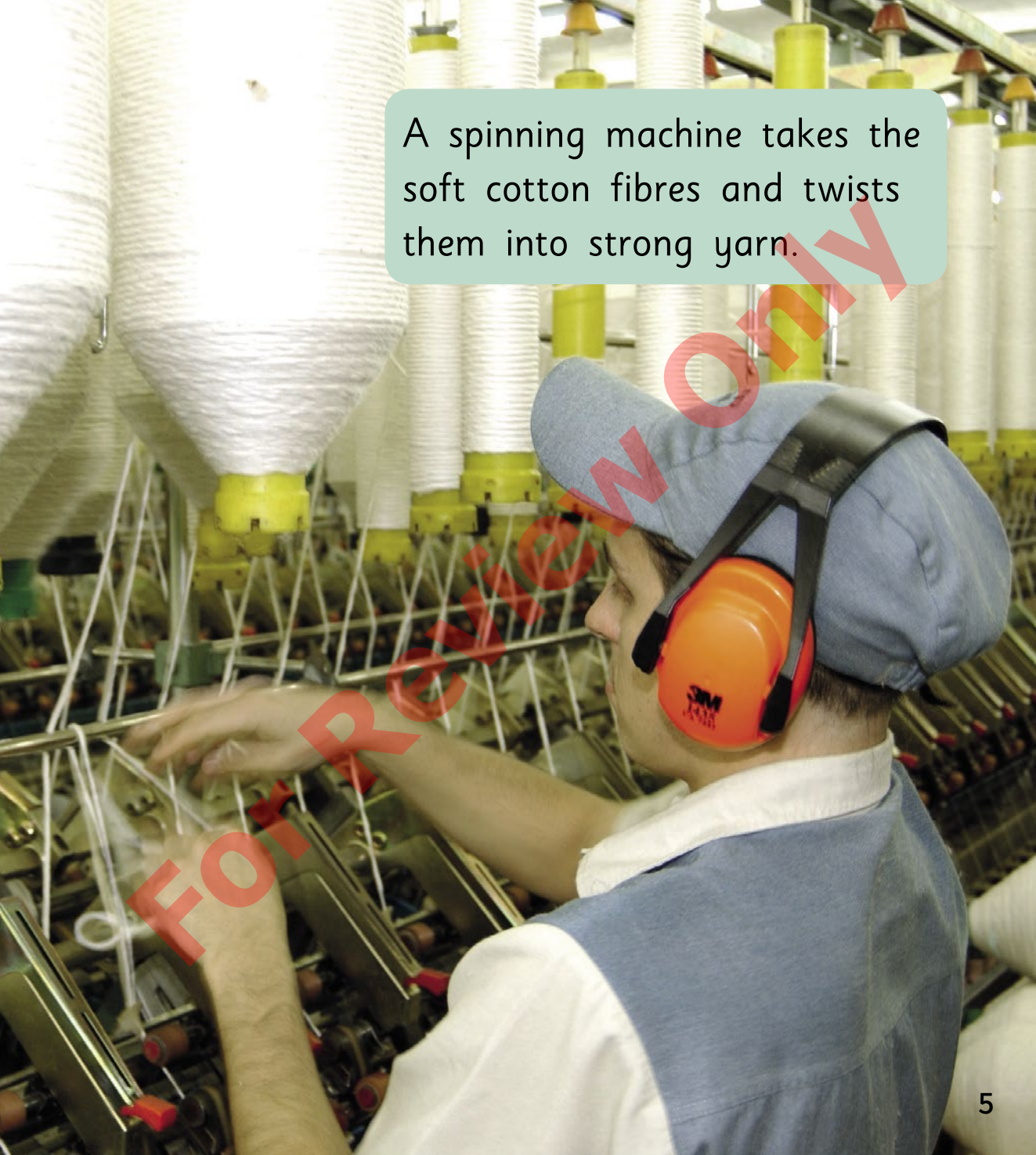
This is called **spinning**.

Spinning twists the fibres into strong threads called **yarn**.

We can make the yarn into different kinds of **fabrics**.





A photograph of a male worker in a textile factory. He is wearing a blue cap, a blue vest over a white shirt, and large orange 3M earmuffs. He is focused on his work, with his hands near a complex spinning machine. The machine features numerous large, white, cone-shaped bobbins hanging from the top. The background is filled with more of these machines, creating a sense of a busy industrial environment. A large, semi-transparent red watermark reading 'FOR REVIEW ONLY' is overlaid diagonally across the image.

A spinning machine takes the soft cotton fibres and twists them into strong yarn.