



Changing Materials

TEACHER'S EDITION

Written by Adrian Bell

Changing Materials



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Teacher's Edition written by Lee Denton

Say

'Let's read the contents page together.'

Read

Read the contents page together with the students.

Check Understanding

- How many sections of the book are about yarn?
- What will you read about on page 12?

Talk

What is a question you had in your head when you read the contents page?

A **question** I had was
' _____?'

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Changing Cotton

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

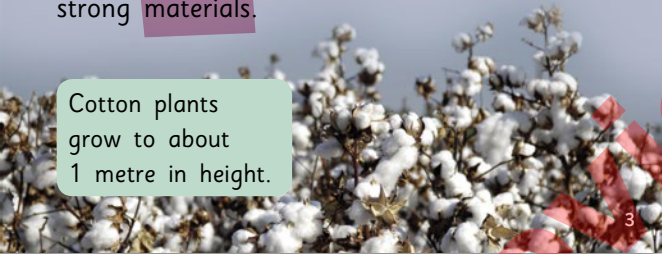
Each cotton fibre is soft and **weak**.

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.



Say

'Read page 3 to your partner. Then ask your partner to read it to you.'

Read

Ask pairs of students to take turns to read page 3 to each other.

Check Understanding

- Where does cotton grow?
- How high do cotton plants grow?
- What does the word 'weak' mean?
- What does the word 'materials' mean?

Talk

What do you already know about cotton?

I **already know** that _____.

What is a question you have for the author?

One **question** I have for the **author** is '_____?'

Say

'Read pages 4 and 5 with your partner. Talk about what you can see in the photograph.'

Read

Ask the students to read pages 4–5 in pairs and discuss the photograph.

Check Understanding

- Can you describe the cotton fibres that are pulled off the plant?
- What does spinning do to the fibres?
- What can we make yarn into?

Spinning Cotton into Yarn

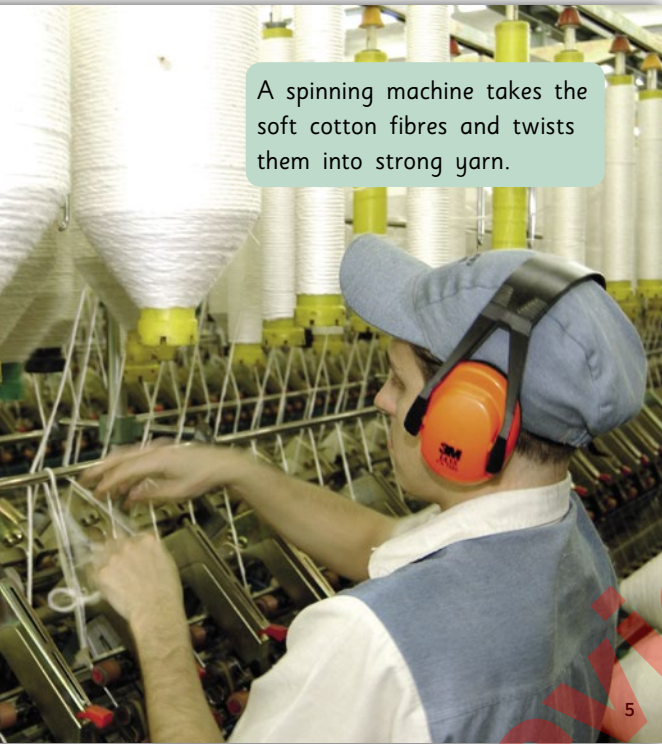
First, we pull the cotton fibres off the plant.
Each fibre is long and straight.

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

Talk

What is the main idea on these pages?

I **think** the **main idea** is _____.

What does the author want you to understand in this part of the text?

I **think** the **author** wants me to understand that _____.

What question is answered in this section?

A **question** that is answered is '_____?'