# Future of Farming: Free Primary Resource


## The James Dyson Foundation's Engineering Solutions: The Future of Farming

This is a free resource for primary schools, designed to complement the Science, Design and Technology and Geography curriculums for Key Stages 1 and 2. The resource equips teachers to show students how design and engineering are vital to the future of sustainable farming. Students can also get hands-on growing strawberry plants using engineering interventions with a resource box.

## What it Includes

The' Future of Farming' includes a teacher's pack containing six lesson plans covering topics across agriculture and engineering. Students learn about the food supply chain - how food is grown, reared or caught and then processed, packaged and sold in supermarkets for consumers. Activities in the lesson plans include collecting soil samples around the school, learning about renewable energy production by building a pinwheel and testing its durability, and prototyping sustainable packaging. Each lesson plan is supported by worksheets and posters, as well as videos where students hear from farmers and engineers at Dyson to better understand the different roles within farming and engineering. The resource includes case studies from Dyson Farming to bring lessons to life and spark engaging discussions amongst students.

## Sustainable Strawberry Project

A key case study is 'The Glasshouse at Dyson Farming' which showcases the technology used for strawberry production. Additionally, teachers can apply to receive a free resource box which includes all the equipment for students to grow their own strawberry crops in the classroom.

**Engineering Solutions: The Future of Farming**
tinyurl.com/4dnn6k87

This box complements Lesson 05 and uses engineering inspiration from Dyson Farming to grow plants that provide fruit through the winter.

**WATCH: Engineering Solutions: The Future of Farming**
tinyurl.com/46ezr3aa



# Hair Science: Free Secondary Resource

## Where Science and Engineering Meet Haircare

The James Dyson Foundation's Engineering Solutions: Hair Science resource is a free, digital resource for Secondary Schools, designed to complement the Science, Design and Technology and Mathematics curriculums for Key Stages 3 and 4.

This resource aims to show students how engineering and science play an important role in the beauty industry, focusing on haircare and styling.

## Exploring Materials

Students will get hands-on through experiments, such as testing the durability and elasticity of hair, helping them to better understand the role of proteins and bonds in hair.

Students will explore how Dyson engineers use this knowledge to develop Dyson's Haircare technology and will be encouraged to use their gained knowledge, analysis and problem-solving skills to develop their own engineering solutions to hair styling. The lessons are supported by ready-made slides and videos which feature Dyson engineers discussing their engineering careers and work in developing Dyson's Haircare technology.

**Engineering Solutions: Hair Science**
tinyurl.com/y4a82m78

**WATCH: Engineering Solutions: Hair Science**
tinyurl.com/3uvct7ps


We developed a poster to tap into the science and engineering behind the Dyson Airwrap™. This was sent in Issue 129.

**Download Designing 129**

**Download the Airwrap Poster**