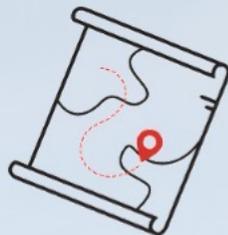




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# SCIENCE



## \*READ-WATCH-VISIT\*

## EXTRA-CURRICULAR

### YEAR GROUP

### READ

### WATCH

### VISIT

# 7

#### How to be a Scientist - Steve Mould

Discover the skills it takes to become a scientist in DK's new science book for kids with science presenter and comedian Steve Mould. Being a scientist isn't just about wearing a lab coat and performing science experiments in test tubes. It's about looking at the world and trying to figure out how it works. As well as simple science projects for kids to try, *How to Be a Scientist* will teach them how to think like a scientist.

#### BBC Bitesize – KS3 science

<https://www.bbc.co.uk/bitesize/subjects/zng4d2p>  
You can consolidate and extend your learning and use this resource for revision.

#### Horrible Science – Microscopic Monsters - Nick Arnold

Look down your microscope and dare to discover the terribly teeny world of Microscopic Monsters. Discover what makes our guts a brilliant home for bacteria, how germs make dead bodies explode and which creature lays its eggs between our toes. Redesigned in a bold, funky new look and illustrated throughout by Tony De Saulles for the next generation of Horrible Science fans.

#### BBC Bitesize – KS3 science

<https://www.bbc.co.uk/bitesize/subjects/zng4d2p>  
You can consolidate and extend your learning and use this resource for revision.

#### SciShow YouTube channel

<https://www.youtube.com/c/SciShow/featured>

SciShow explores the unexpected. Seven days a week, Hank Green, Michael Aranda and friends delve into the scientific subjects that defy our expectations and make us even more curious.

#### Eureka (Halifax)

<https://www.eureka.org.uk>

An award-winning children's museum in Halifax, West Yorkshire, with more than 400 interactive exhibits which inspire children to think about science.

#### Bolton Museum and Art Gallery

<https://www.boltonlams.co.uk/museum>  
Bolton Museum and Art Gallery has something for everyone. Visit our Ancient Egypt Gallery to see fascinating artifacts, learn about Bolton's rich heritage or meander your way through our collection of art. Learn about creatures from all over the world and don't forget to say hello to our dinosaur friend on your way in!

#### History of medicine – BBC Teach video series:

<https://www.bbc.co.uk/programmes/articles/2LwpBTHK7f5PwhwFNYJ6GV7/medicine-through-time>

An insight into how medicine has changed over time as our understanding of the microbes which cause disease has developed.

#### Museum of Science and Industry, Manchester

<https://www.scienceandindustrymuseum.org.uk>

Learn stories about ideas that change the world, from the Industrial Revolution to today and beyond.

The technological advancements which were happening at the time enabled workers to harness and transfer huge amounts of energy. In school you will be learning about about lots of different forms of energy and how they can be transferred usefully.

# 8

# 9

## **The Private Life of Plants: A Natural History of Plant Behaviour: David Attenborough**

Accompanying a David Attenborough series on BBC Television, and with the aid of time-lapse photography, this book reveals hidden events and phenomena of plant-life throughout the world.

### **Interactive Periodic table on the RSC:**

<https://www.rsc.org/periodic-table>  
provides information about the periodic table and how to use it.

### **BBC Bitesize – KS3 science**

<https://www.bbc.co.uk/bitesize/subjects/zng4d2p>  
You can consolidate and extend your learning and use this resource for revision.

## **A Short History of Nearly Everything – Bill Bryson.**

Bill Bryson discusses all the important scientific advancements in the past 300 years.

### **Bad Science – Ben Goldacre**

We are constantly bombarded with inaccurate, contradictory and sometimes misleading information - until now. Ben Goldacre masterfully dismantles the dubious science behind some of the great drug trials, court cases, and missed opportunities of our time. He also shows us the fascinating story of how we know what we know, and gives us the tools to uncover bad science for ourselves.

### **BBC Bitesize – KS4 Science**

<https://www.bbc.co.uk/bitesize/subjects/zrkw2hv>  
You can consolidate and extend your learning and use this resource for revision.

## **What If?: Serious Scientific Answers to Absurd Hypothetical Questions – Randall Munroe**

From the creator of the wildly popular *xkcd*, *What If?* gives hilarious and informative answers to important questions you probably never thought to ask. How fast can you hit a speed bump, driving, and live? When (if ever) did the sun go down on the British Empire? When will Facebook contain more profiles of dead people than living? How many humans would a T Rex rampaging through New York need to eat a day? In pursuit of answers, Munroe runs computer simulations, pores over stacks of declassified military research memos, solves differential equations and consults nuclear reactor operators. His responses are masterpieces of clarity and hilarity. They often predict the complete annihilation of humankind - or at least a really big explosion.

### **BBC Bitesize – KS4 Science**

<https://www.bbc.co.uk/bitesize/subjects/zrkw2hv>  
You can consolidate and extend your learning and use this resource for revision.

# 10

## **The Sir David Attenborough collection on BBC iPlayer**

<https://www.bbc.co.uk/iplayer/group/p03szck8n>

Including *Life on Earth* and *Planet Earth II*, this collection of Sir David's programs from the 1950s to the present day are beautiful and fascinating for people of all ages.

### **Steve Mould YouTube Channel**

<https://www.youtube.com/c/SteveMould>

## **Physics online**

<https://www.physicsonline.com>

This is a collection of video and other activities that will help you to understand the physics elements of the science GCSE and A-Level courses. The linked YouTube channel also contains important news and updates about exams and the like.

### **Drowning In plastic:**

[https://www.bbc.co.uk/programmes/b0b\\_mbn47](https://www.bbc.co.uk/programmes/b0b_mbn47)

Wildlife biologist Liz Bonnin works with some of the world's leading marine biologists and campaigners to discover the true dangers of plastic in our oceans. Whilst the programme might not be available, the clips are fascinating.

## **How to revise:**

<https://www.youtube.com/watch?v=X1Q3J3g6X2w>

Online guidance on how to revise from free science lessons.

## **The Brian Cox collection on BBC iPlayer.**

<https://www.bbc.co.uk/iplayer/group/p09z0ti9>

A selection of Professor Brian Cox's television programs including *Universe* and *The Planets*.

## **Knowsley safari Park**

<https://www.knowsleysafariexperience.co.uk>

Warmly welcoming visitors for over 43 years. A stunning five-mile safari drive, foot safari, events and talks on a wide variety of animals.

All organisms on earth have evolved different ways to obtain energy from their surroundings through respiration and photosynthesis. See it happening for real at Knowsley Safari park.

## **Sea Life Manchester – Trafford centre**

<https://www.visitsealife.com/manchester/>

Visit *SEA LIFE* Manchester and get closer than ever before to over 5000 creatures.

### **Chester Zoo**

[www.chesterzoo.org](http://www.chesterzoo.org)

Visit the he most visited zoo in the UK AND a conservation and education charity committed to PREVENTING EXTINCTION.

# 11

## **The John Rylands Library**

<https://www.library.manchester.ac.uk/rylands/>

The John Rylands Library is home to one of the world's richest and most unique collections of books, manuscripts, maps, works of art and objects.

Go there to revise or de-stress with one of your favourite books.