

# Raising aspirations – Science

At Ormiston Bushfield Academy, we believe every student should have the opportunity to explore, question, and excel in Science. This page offers a carefully selected range of books, websites, and podcasts to stretch your curiosity; deepen your understanding; and help you see the possibilities that Science can offer. Whether you're looking for your next great read, a new challenge, or a glimpse into the world of real scientists - you'll find something here to spark your ambition and raise your aspirations.

## Suggested Reading list

### KS3 (years 7-9)

**Girls Think of Everything** by Catherine Thimmesh - Inspiring and easy to read; great for promoting diversity in STEM.

**Horrible Science series** by Nick Arnold and Tony De Saulles - Funny, fact-packed, and perfect for sparking curiosity.

**The Way Things Work Now** by David Macaulay - Covers physics and engineering concepts in an accessible way.

### KS4/5 (years 10-13)

**Unlocking the Universe** by Stephen Hawking and Lucy Hawking - Explores complex ideas in a student-friendly way; ideal for those studying GCSE Triple Science or A-Level.

**The Where, the Why, and the How: 75 Artists Illustrate Wondrous Mysteries of Science** by Matt Lamothe, Julia Rothman, Jenny Volvovski - Artistic and conceptual; good for independent thinkers and those interested in science communication.

**Mammoth Science: The Big Ideas That Explain Our World by Dorling Kindersly** - Covers big ideas with clarity; suitable for KS4 students who want to explore topics beyond the curriculum.

## Websites

**Learn.Genetics** <https://learn.genetics.utah.edu/> - Explanations are clear and pitched at secondary school level, making it suitable for independent exploration.

**NASA Learning Resources** <https://www.nasa.gov/learning-resources/> - Covers space science, astronomy, engineering, Earth science, and technology.

**Ted Talks** <https://www.ted.com/topics/chemistry> - TED offer a huge range of short, engaging videos on chemistry topics - perfect for independent learning.

## Podcasts

**The Naked Scientists Podcast** - Science news stories, scientific breakthroughs and interviews with leading scientists.

**The Infinite Monkey Cage** - Explores big scientific questions with humour and insight. Great for students who enjoy science, critical thinking, and a bit of fun.

**STEM Stories from the Swamp** - Podcast series where students discuss science topics that interest them, with most episodes under 30 minutes.