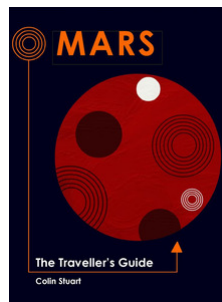


HOW WE'LL LIVE ON MARS

ARE YOU TEACHING THE FIRST MARTIAN?

Today's schoolchildren are the Martian explorers of tomorrow. The first person to walk on the Red Planet is probably already alive and under 18 years old. Are they at your school? In this awe-inspiring talk, packed full of stunning visuals and the latest scientific thinking, astronomy author Colin Stuart takes you on a journey to Mars.

Based on his latest books, including *The Astronaut Selection Test Book* with Tim Peake, you'll hear just what it'll take to achieve the most audacious feat of exploration ever attempted. Colin will even bring a real piece of Mars in the form a Martian meteorite. Strap in for the voyage of a lifetime!



Signed copies will be available to buy as part of my visit



COLIN STUART

Colin Stuart is an astronomy author and speaker who has talked to over half a million people about the universe, ranging from schools and the public to conferences and businesses.

His books have sold more than 300,000 copies worldwide and been translated into 19 languages. He's also written for *The Guardian*, *New Scientist*, *Wall Street Journal* and the *European Space Agency*. In recognition of his efforts to popularise astronomy the asteroid (15347) *Colinstuart* is named after him. Also a Fellow of the *Royal Astronomical Society*, Colin has appeared on *Sky News*, *BBC News* and *Radio 5Live* and been quoted in national newspapers including *The Daily Telegraph* and *The Observer*.

HOW WE'LL LIVE ON MARS

CURRICULUM POINTS COVERED

- **Cells and organisation** – the radiation dangers in space for living things.
- **The skeletal and muscular systems** - effects of prolonged weightlessness.
- **Nutrition and digestion** - how to eat a healthy diet in space.
- **Photosynthesis** – can plants survive on Mars?
- **Genetics and Evolution** – effects of radiation on DNA.
- **Chemical reactions** – using electrolysis to extract oxygen from water.
- **Earth and atmosphere** – comparison of Earth and Mars's atmosphere
- **Energy** – fuel and energy resources
- **Non-contact forces** – Martian gravity and its challenges
- **Pressure in fluids** – atmospheric pressure
- **Light waves** - travelling through a vacuum; speed of light
- **Magnetism** – role of Mars's magnetic field
- **Matter (physical changes)** - The sublimation and deposition of carbon dioxide
- **Space physics** – gravity, the Sun, and Martian seasons. Light-minutes and light-years as units of distance

FEEDBACK FOR HOW WE'LL LIVE ON MARS

"THE BEST TALK THE SCHOOL HAS EVER HAD"

- LINGFIELD COLLEGE

"AN AMAZING TALK. THOUGHT PROVOKING AND INSPIRING"

- KING'S COLLEGE SCHOOL, WIMBLEDON

"PERFECTLY PITCHED"

- BEDALES SCHOOL