

Scientists

At Misterton Primary and Nursery School

How do we create Scientists at Misterton?

- ❖ 10 Minute Science
- ❖ Cross curriculum links
- ❖ Breadth of curriculum
- ❖ Use the environment around us
- ❖ Use of scientific vocabulary
- ❖ Out of school visits-Magna, Beckingham Marshes, Owlet World, West Burton Power Station
- ❖ Enterprise Day – Link to STEM
- ❖ Science Day – Link to STEM

What are the skills needed to be a Scientist?

- ❖ To investigate
- ❖ To analyse
- ❖ To work scientifically
- ❖ To observe
- ❖ To classify
- ❖ To make models to learn more about the world
- ❖ To infer
- ❖ To share information
- ❖ To be creative

Characteristics of Scientists

- The ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings.
- Confidence and competence in the full range of practical skills, taking the initiative in, for example, planning and carrying out scientific investigations.
- Excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations, solving challenging problems and reporting scientific findings.
- High levels of originality, imagination or innovation in the application of skills.
- The ability to undertake practical work in a variety of contexts, including fieldwork.
- A passion for science and its application in past, present and future technologies.

Essential Learning Objectives

Throughout school, the children study **these essential learning objectives:**

- ❖ To work scientifically

Biology

- ❖ To understand plants
- ❖ To understand animals and humans
- ❖ To investigate living things
- ❖ To understand evolution and inheritance

Chemistry

- ❖ To investigate materials

Physics

- ❖ To understand movement, forces and magnets
- ❖ To understand the Earth's movement in space
- ❖ To investigate light and seeing
- ❖ To investigate sound and hearing
- ❖ To understand electrical circuits

Scientific Jobs

Doctors

Nurses

Chefs

Vets

Palaeontologists

Medical Researchers

Pharmacist

Scientific Researchers

Teacher

Lecturer

Gardener

Astronaut

Pilot

Chemist

Electro Chemist

Biologists

Inventor

Engineer

Car Mechanic

Builder

Computer Scientists

Site Manager

Zoologist

Botanist

Geographer

Geologists

Gemmologist

Primatologists

Cosmologist

Astrophysicist

Famous Scientists

Galileo

Charles Darwin

Isaac Newton

Marie Curie

Mary Anning

Charles Rennie Mackintosh

Noel Fitzpatrick

Brian Cox

Tim Peake

Stephen Hawkins

Robert Winston

Chris Packham

Heston Blumenthal

Bear Grylls

Steve Jobs

Bill Gates

Mark Zuckerberg

David Attenborough

Jane Goodall

Alan Guth

Tim Berners-Lee

Becky Schroeder

Terri Irwin

Steve Irwin