

Enhancing Science Education at Moss Valley

At our school, we place a strong emphasis on developing our pupils' knowledge and understanding of science through a variety of enriching activities and experiences. We believe that science education extends beyond the classroom and have integrated numerous enhancements to foster a love for science among our students.







Trips and Visits

We organise regular trips, visits and in-school visitors in science. These outings provide hands-on learning opportunities and expose students to real-world scientific applications, sparking curiosity and excitement about the subject.

Year Group	Trip / Visit / In-school visitor
Nursery / Reception	<p style="text-align: center;">Understanding the World A walk around the school grounds</p> <p style="text-align: center;">Understanding the world Chicks, Frogs, caterpillars</p> <p style="text-align: center;">Understanding the world Blackpool Zoo</p> <p style="text-align: center;">Understanding the world Grow outdoors</p> <p style="text-align: center;">Understanding the world Trip to Dunham Massey</p> <p style="text-align: center;">Understanding the world Sea life centre</p> <p style="text-align: center;">Understanding the world Trip to the beach</p>
Year 1	<p style="text-align: center;">Science Join EYFS on their trip to Blackpool Zoo</p>
Year 2	<p style="text-align: center;">Science- Plants RHS Bridgewater Gardens</p>
Year 3	<p style="text-align: center;">Science Natural History Museum – Rocks and Fossils</p> <p style="text-align: center;">Science Science Industry Museum</p>
Year 4	<p style="text-align: center;">Geography & Science Volcano VR visitor</p>
Year 5	<p style="text-align: center;">Science Jodrell bank</p> <p style="text-align: center;">Science Museum of science and industry</p>
Year 6	<p style="text-align: center;">Science Lab experiments – experience with the high school</p>

Celebrations and Events

To raise the profile of science within our school, we celebrate science week every year, following the national topic. During this week, we also incorporate themes of citizenship and environmental issues, educating our pupils on the broader implications of science in society. This is carefully mapped to ensure that pupils build their knowledge progressively over time. We aim to develop their cultural capital, equipping them with the awareness and understanding needed to discuss important scientific and environmental issues occurring in the world today. This approach not only enhances their academic knowledge but also prepares them to be informed and responsible global citizens.

Science Week Focus	
Year Group	Trip / Visit / In-school visitor
Year 1 	How do we care for our planet?
Year 2 	What does wildlife do for us? What can we do for wildlife?
Year 3 	How can we reduce food waste?
Year 4 	What is deforestation? How does deforestation effect the UK and the rest of the world?
Year 5 	What is plastic pollution? What is the effect of plastic pollution on the planet?
Year 6 	What is light pollution? How can we reduce light pollution?

Learning About Famous Scientists

At Moss Valley, it is important that our pupils learn about a range of famous scientists. We have carefully selected scientists whose work is closely linked to our curriculum. Each year, students delve a little deeper into the lives and contributions of these scientists, gradually building their knowledge and appreciation over time. This progressive approach helps students understand the significance of scientific discoveries and the impact these individuals have had on our world. Through this ongoing study, we aim to inspire our pupils and foster a lasting interest in the field of science.



Charles Macintosh



Anders Celsius



Florence
Nightingale



Carl Linnaeus



David
Attenborough



Isaac Newton



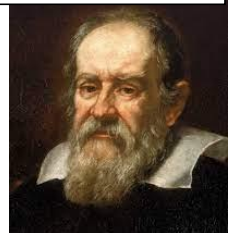
Mary Anning



James Clerk
Maxwell



Benjamin Franklin



Galileo Galilei



Neil Armstrong